WEST MOUNT SPILL I
CLOSURE REQUEST

API NO. 30-005-64381
Unit Letter C, Section 31, Township 15S, Range 29E
CHAVES COUNTY, NEW MEXICO

DATE OF RELEASE: 09/21/2023
INCIDENT NO. nAPP2329756915

January 23, 2026
Prepared by:

2724 NW COUNTY ROAD
HOBBS, NM 88240

January 23, 2026

New Mexico Energy, Mineral & Natural Resources
NMOCD District I
C/O Mike Bratcher and Robert Hamlet
811 S. First Street
Artesia, NM 88210

Mack Energy Corporation
11344 Lovington Hwy
Artesia, NM, 88210

Subject: Closure Request for Mack Energy Corporation- West Mount Spill I

API No. 30-005-64381
Incident No. nAPP2329756915
Unit Letter C, Section 31, Township 15s, Range 29E
Chaves County, New Mexico

To Whom It May Concern,

Mack Energy retained Energy Staffing Services, LLC (ESS) to conduct a spill assessment for the West Mount Spill I (hereafter referred to as "Spill I") related to a produced water release that occurred on September 20, 2023. On September 22, 2023, at 4:12 p.m., ESS provided immediate notification of the release to the New Mexico Oil Conservation Division (NMOCD), District I Office via email (notification attached).

On behalf of Mack Energy, ESS also submitted the initial Form C-141 Release Notification, along with the spill volume calculation used to determine the estimated release volume (attachments included), on October 4, 2023. The NMOCD accepted the C-141, which was recorded on October 24, 2023, at 4:35 p.m. The incident number assigned to this release is **nAPP2329756915** (notification of correspondence attached).

This report provides a detailed description of the spill assessment, delineation, and remedial activities conducted in response to Spill I. The information presented herein demonstrates that the closure criteria established under 19.15.29.12 NMAC (New Mexico Oil Conservation Division, 2018) have been met and that all applicable regulatory requirements have been followed. This document is intended to serve as the final report submitted to the NMOCD in support of a request for closure approval for the above-referenced release.

Incident Description

On September 20, 2023, the water transfer company Well Spring identified a failure in a lay-flat transfer line that resulted in the release of produced water into the pasture area associated with Spill I.

Upon discovery of the release, Energy Staffing Services LLC (ESS) was notified and mobilized to the site to conduct a full environmental site assessment. Following field measurements and visual inspection, it was determined that approximately 5.55 barrels of produced water were released. No recoverable fluids were present at the time of assessment.

Initial site photographs were taken, and the impacted area was measured and documented. Please refer to the attached initial site photographs for reference.

Site Characterization

The Spill I release occurred on State Land located at latitude 32.977062, longitude -104.071040, 25 miles from Hagerman, New Mexico. The site is legally described as Unit Letter C, Section 31, Township 15 South, Range 29 East, Chaves County, New Mexico. A site schematic is included as an attachment.

Spill I is associated with production flowlines and is located near existing production facilities and well pads. The release occurred within a pasture area. The site elevation is approximately 3,734 feet above mean sea level.

Vegetation in the area is historically and predominantly composed of black grama, bush muhly, creosote bush, dropseed, and other perennial forbs and grasses. Supporting Rangeland and Vegetation Classification documentation is attached.

According to the United States Department of Agriculture Natural Resources Conservation Service (USDA NRCS), soils in the Spill I area consist of 100% Tencee–Sotim Association. The corresponding soil map is attached.

The Federal Emergency Management Agency (FEMA) National Flood Hazard Layer indicates that the site lies within an area having a 0.2% annual chance flood hazard, with a 1% annual chance flood potentially producing an average depth of approximately one foot in drainage areas less than one square mile. The FEMA flood map is included as an attachment.

Based on data from the U.S. Department of the Interior, Bureau of Land Management, the site has a low potential for karst geology. The applicable karst map is attached.

No surface water features were identified at or near the Spill I release location. The site is not located within one-half mile of any continuously flowing watercourse or lakebed. No additional critical or community features were identified in proximity to the release area. Refer to the attached watercourse map for details.

Groundwater Assessment

A review of groundwater resources was conducted using data from the New Mexico Office of the State Engineer (NMOSE). The nearest registered water wells are summarized below:

- RA12428 – Drilled 2016; total depth 170 feet; groundwater depth 125 feet; located approximately 6,994 yards from the site
- RA12429 POD1 – Drilled 2016; total depth 62 feet; groundwater depth 27 feet; approximately 7,745 yards from the site
- L14514 POD1 – Drilled 2018; total depth 208 feet; groundwater depth 77 feet; approximately 8,704 yards from the site
- RA09248 – Drilled 1996; total depth 150 feet; groundwater depth 45 feet; approximately 8,928 yards from the site
- RA10280 – Drilled 2002; total depth 70 feet; groundwater depth 40 feet; approximately 9,030 yards from the site
- RA09342 – Drilled 1998; total depth 220 feet; groundwater depth 110 feet; approximately 9,411 yards from the site
- RA09059 – Drilled 1995; total depth 110 feet; groundwater depth 35 feet; approximately 9,477 yards from the site

An extended groundwater search was performed using the OSE POD Location Mapping System, which confirmed that no additional registered water wells are located within a one-half mile radius of the Spill I release.

Supporting NMOSE, OSE POD, and groundwater location maps are included in this report.

Closure Criteria Determination

The closure criteria for soils impacted by a produced water release are presented in the table below. Due to the absence of groundwater data within a **one-half mile radius** of the Spill I release location, the site is conservatively classified under the **≤50 feet to groundwater (DGW)** category. This classification is based solely on the lack of recent or available groundwater depth information.

Additional factors considered in this determination include the site's location on **State Land** and the designation of **low karst potential** in the area.

Applicable Soil Closure Criteria (≤50' to Groundwater)

Constituent	Analytical Method	Closure Limit
Chloride	EPA 300.0 or SM 4500-Cl B	600 mg/kg
TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M	100 mg/kg

Constituent	Analytical Method	Closure Limit
GRO + DRO	EPA SW-846 Method 8015M	50 mg/kg
BTEX	EPA SW-846 Method 8021B or 8260B	10 mg/kg
Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Soil Remediation Action Levels

ESS has provided sufficient data demonstrating that soils at the Spill I release site were impacted by the produced water release and that response actions were conducted in accordance with the New Mexico Oil Conservation Division (NMOCD) Closure Criteria for Soils Impacted by a Release, dated August 14, 2018.

This guidance document establishes requirements for initial response actions, site characterization, delineation, and soil sampling procedures. All assessment and sampling activities conducted by ESS were consistent with the remediation and abatement goals and objectives outlined in the NMOCD criteria.

The following information summarizes the soil delineation and sampling activities conducted for this release.

Soil Sampling Procedures

Soil sampling for laboratory analysis was conducted in accordance with NMOCD-approved industry standards. The following procedures and analytical protocols were utilized:

- Samples were collected using clean, airtight glass containers supplied by the analytical laboratory.
- Each sample container was clearly labeled with site identification, sample number, date, and depth.
- Samples were maintained in a cool condition and stored on ice.
- Samples were promptly shipped to the laboratory under proper chain-of-custody procedures.

Laboratory Analytical Methods

The following analytical methods were used for all bottom-hole (vertical) and sidewall (horizontal) soil samples submitted to Envirotech Analytical Laboratory:

Volatile Organic Compounds – EPA Method 8021B

- Benzene
- Toluene
- Ethylbenzene
- p,m-Xylene
- o-Xylene
- Total Xylenes

Non-Halogenated Organics – EPA Method 8015D

- Gasoline Range Organics (GRO; C6–C10)
- Diesel Range Organics (DRO; C10–C28)
- Oil Range Organics (ORO; C28–C40)

Anions – EPA Method 300.0 / 9056A

- Chloride

Release Investigation Data

On December 1, 2023, ESS personnel mobilized to the Spill I release location to conduct soil delineation activities. Delineation sample locations were established, and each point was surveyed and recorded using GPS.

Surface soil samples were collected at each location, field screened, logged, and submitted to Envirotech Analytical Laboratory for confirmation analysis. A total of four (4) vertical sample points and four (4) horizontal (sidewall) sample points were installed.

Each sample point was excavated using a backhoe, and soil samples were collected at 1-foot and 2-foot intervals. Bottom-hole samples from each excavation were submitted for laboratory analysis.

Laboratory-confirmed delineation results are presented in the accompanying tables, with laboratory-analyzed samples highlighted. The following supporting documentation is attached to this report:

- Soil delineation sample data
- Delineation sample location map
- Laboratory analytical reports

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Soil	Dates
SP1	SURF	3280	L	ND	ND	ND	ND	ND	4820		12/1/2023
	2	880									
	4	960									
	6	880									
	8	800									
	10	880									
	12	800									
	14	800									
	16	720									
	18	880									
	20	880									
	22	480									
	24	80	L	ND	ND	ND	ND	ND	60		7/11/2024
SP2	SURF	>4000	L	ND	ND	ND	ND	ND	5480		12/1/2023
	2	2400									
	4	2320									
	6	1840									
	8	1600									
	10	1360									
	12	1080									
	14	480									
	16	640									
	18	800									
	20	880									
	22	320									
	24	80	L	ND	ND	ND	ND	ND	54.9		7/11/2024
SP3	SURF	>4000	L	ND	ND	ND	ND	ND	26900		12/1/2023
	2	>4000									
	4	>4000									
	6	>4000									
	8	3520									
	10	3120									
	12	2800									
	14	2000									
	16	1360									
	18	960									
	20	960									

	22	80									
	24	80	L	ND	ND	ND	ND	ND	21.9		7/12/2024
SP4	SURF	1360	H	ND	ND	129	152	281	1530		7/12/2024
	2	>4000									
	4	3120									
	6	2720									
	8	2400									
	10	1840									
	12	1360									
	14	1040									
	16	720									
	18	880									
	20	800									
	22	400									
	24	80	L	ND	ND	ND	ND	ND	37.3		7/14/2024
SW1	SURF	80	L	ND	ND	ND	61.9	61.19	ND		12/1/2023
	1	1760									
	2	1280									
	3	1040									
	4	1040									
	5	880									
	6	720									
	7	400									
	8	320	L	ND	ND	ND	ND	ND	206		7/11/2024
SW2	SURF	1200	L	ND	ND	ND	ND	ND	1670		12/1/2023
	1	1320									
	2	1200									
	3	1120									
	4	880									
	5	640									
	6	640									
	7	400									
	8	400	L	ND	ND	ND	ND	ND	210		7/11/2024
SW3	SURF	>4000	L	ND	ND	ND	ND	ND	11500		12/1/2023
	1	1040									
	2	1040									
	3	800									

	4	640									
	5	320									
	6	240	L	ND	ND	ND	ND	ND	74.3		7/11/2024
SW4	SURF	>4000	L	ND	ND	ND	ND	ND	6220		12/1/2023
	1	960									
	2	720									
	3	400									
	4	240	L	ND	ND	ND	ND	ND	74.1		7/11/2024

Please refer to the delineation photographs attached to this report.

On August 19, 2024, Energy Staffing Services, LLC (ESS) submitted the official notification to the New Mexico Oil Conservation Division (NMOCD) requesting approval to proceed with the composite sampling phase for the Spill I release. The assigned Application Identification Number for this notification is 375243. On the same date, at 2:41 p.m., the NMOCD received and accepted the notification for the composite phase of review. Supporting email correspondence is included as an attachment.

On August 22, 2024, field crews initiated composite soil sampling within the excavation area of the Spill I release. Composite samples were collected at a frequency of one composite per 200 square feet in accordance with NMOCD guidance. A total of twenty-five (25) bottom-hole composite samples were collected, field screened, and submitted to Envirotech Analytical Laboratory for confirmatory analysis.

Composite sample results are presented in the tables below and are also included as attachments to this report, along with the composite sample location map and laboratory analytical reports.

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Dates
COMP1	22	240	L	ND	ND	ND	ND	ND	ND	8/21/2024
COMP2	22	240	L	ND	ND	ND	ND	ND	ND	8/21/2024
COMP3	22	240	L	ND	ND	ND	ND	ND	ND	8/21/2024
COMP4	22	320	L	ND	ND	ND	ND	ND	87.6	8/21/2024
COMP5	22	320	L	ND	ND	ND	ND	ND	93.4	8/21/2024
COMP6	22	320	L	ND	ND	ND	ND	ND	95.3	8/21/2024
COMP7	22	320	L	ND	ND	ND	ND	ND	89.3	8/21/2024

SWCOMP1	22	240	L	ND	ND	ND	ND	ND	40.2	8/22/2024
SWCOMP2	22	240	L	ND	ND	ND	ND	ND	38.2	8/22/2024
SWCOMP3	22	240	L	ND	ND	ND	ND	ND	42.4	8/22/2024
SWCOMP4	22	240	L	ND	ND	ND	ND	ND	123	8/22/2024
SWCOMP5	22	240	L	ND	ND	ND	ND	ND	125	8/22/2024
SWCOMP6	22	240	L	ND	ND	ND	ND	ND	80.5	8/22/2024
SWCOMP7	22	240	L	ND	ND	ND	ND	ND	39.8	8/22/2024
SWCOMP8	22	240	L	ND	ND	ND	ND	ND	76.4	8/22/2024
SWCOMP9	22	240	L	ND	ND	ND	ND	ND	41.7	8/22/2024
SWCOMP10	22	240	L	ND	ND	ND	ND	ND	79.4	8/22/2024
SWCOMP11	22	240	L	ND	ND	ND	ND	ND	104	8/23/2024
SWCOMP12	22	240	L	ND	ND	ND	ND	ND	107	8/23/2024
SWCOMP13	22	240	L	ND	ND	ND	ND	ND	58.8	8/23/2024
SWCOMP14	22	240	L	ND	ND	ND	ND	ND	118	8/23/2024
SWCOMP15	22	240	L	ND	ND	ND	ND	ND	91.2	8/23/2024
SWCOMP16	22	240	L	ND	ND	ND	ND	ND	96.4	8/23/2024
SWCOMP17	22	240	L	ND	ND	ND	ND	ND	109	8/23/2024
SWCOMP18	22	240	L	ND	ND	ND	ND	ND	64.5	8/23/2024

Remediation Summary

Please refer to the remediation photographs attached to this report.

The total impacted area associated with the Spill I release, measured approximately 1,396 square feet. During remediation activities, a total of 2,732 cubic yards of impacted soil was excavated and transported to Gandy's Disposal Facility for proper disposal.

To restore the site, approximately 2,860 cubic yards of clean fill material were hauled from Gandy's Disposal Facility to the location and stockpiled for backfilling. In addition, approximately 612 cubic yards of topsoil were sourced from the landowner's pit and placed for final site restoration.

Following excavation and backfilling, the site was contoured and graded to match surrounding natural conditions and subsequently seeded. Backfilling and seeding activities were completed on January 14, 2025. Final site condition photographs are included as attachments.

Closure Request

On behalf of Mack Energy, Energy Staffing Services, LLC (ESS) respectfully requests closure of Incident No. NAPP2329756915 associated with the produced water release that occurred within the pasture area of the West Mount Spill I location.

Mack Energy and ESS certify that all information presented in this report is true, accurate, and complete, and that all applicable New Mexico Oil Conservation Division (NMOCD) closure requirements have been satisfied for the Spill I release.

Should you have any questions or require additional information following review of this closure request, please contact the undersigned at (575) 390-6397 or (575) 393-9048. Inquiries may also be submitted via email to natalie@energystaffingllc.com.

Sincerely,

Natalie Ragsdal

Natalie Ragsdal
COO of ESS; Director of Environmental and Regulatory Services
Energy Staffing Services, LLC
2724 NW County Road
Hobbs, NM 88240

Cell: 575-390-6397
Office: 575-393-9048
Email: natalie@energystaffingllc.com

Attachments

- Spill Notification
- Initial C-141 and Spill Calculator Form
- Impact Area Map
- Initial Site Photographs
- Site Location Map
- Rangeland and Vegetation Classification
- Soil Map
- FEMA National Flood Hazard Layer Map
- Karst Geology Map
- Watercourse Map
- Groundwater Information
- Groundwater Location Map
- OSE POD Map
- Delineation Sample Data
- Delineation Sample Location Map and GPS Log
- Laboratory Analysis – Delineation
- Delineation Site Photographs
- Composite Phase Notification
- Composite Sample Data
- Composite Sample Location Map and GPS Log
- Laboratory Analysis – Remediation/Composite Samples
- Remediation and Final Site Photographs
- Executive Reclamation Summary

From: OCDOnline@state.nm.us
To: Natalie Gladden
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 279031
Date: Tuesday, October 24, 2023 3:49:05 PM

To whom it may concern (c/o Natalie Gladden for MACK ENERGY CORP),

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#) nAPP2329756915,
with the following conditions:

- **When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.**

Please reference nAPP2329756915, on all subsequent C-141 submissions and communications regarding the remediation of this release.
NOTE: As of December 2019, NMOCD has discontinued the use of the "RP" number.
If you have any questions regarding this application, or don't know why you have received this email, please contact us.

ocd.enviro@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party **MACK ENERGY CORPORATION**	OGRID **013837**
Contact Name **MATT BUCKLES**	Contact Telephone **575-703-1958**
Contact email **mattbuckles@mec.com**	Incident # *(assigned by OCD)*
Contact mailing address **11344 Lovington Highway, Artesia NM 88210**	

Location of Release Source

Latitude **32.977062** Longitude **-104.07104**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name **WEST MOUNT SPILL I**	Site Type **PRODUCTION AREA**
Date Release Discovered **9/21/2023**	API# *(if applicable)* ***30-005-64381***

Unit Letter	Section	Township	Range	County
C	**31**	**15**	**29E**	**CHAVES**

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) **5.55**	Volume Recovered (bbls)0BBLS
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The water transfer company Well Spring found a failure on their lay flat line, releasing the fluid to the pasture area.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? **DUE TO VOLUME OF RELEASE**
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? **Email was sent was sent to the OCD, Bratcher, Hamlet, Venegas, on 9/22 at 4:12pm**	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: **NATALIE GLADDEN** Title: **DIRECTOR OF ENVIRONMENTAL AND REGULATORY**

Signature: Natalie Gladden Date: 10/24/23

email: **natalie@energystaffingll.com** Telephone: **575-390-6397**

OCD Only

Received by: _____ Date: _____

MACK ENERGY - WEST MOUNT SPILL I

Soil Type	Porosity	Length	Width	Depth (.083 per inch)	Cubic Feet	Estimated Barrels	Soil Type
Clay	0.15	10	10	0.083	8.3	0.22	Clay
Peat	0.40	10	10	0.083	8.3	0.59	Peat
Glacial Sediments	0.13	10	10	0.083	8.3	0.19	Glacial Sediments
Sandy Clay	0.12	10	10	0.083	8.3	0.18	Sandy Clay
Silt	0.16	10	10	0.083	8.3	0.24	Silt
Loess	0.25	10	10	0.083	8.3	0.37	Loess
Fine Sand	0.16	10	10	0.083	8.3	0.24	Fine Sand
Medium Sand	0.25	52.09	28.82	0.083	124.60241	5.55	Medium Sand
Coarse Sand	0.26	10	10	0.083	8.3	0.38	Coarse Sand
Gravely Sand	0.26	10	10	0.083	8.3	0.38	Gravely Sand
Fine Gravel	0.26	10	10	0.083	8.3	0.38	Fine Gravel
Medium Gravel	0.20	10	10	0.083	8.3	0.30	Medium Gravel
Coarse Gravel	0.18	10	10	0.083	8.3	0.27	Coarse Gravel
Sandstone	0.25	10	10	0.083	8.3	0.37	Sandstone
Siltstone	0.18	10	10	0.083	8.3	0.27	Siltstone
Shale	0.05	10	10	0.083	8.3	0.07	Shale
Limestone	0.13	10	10	0.083	8.3	0.19	Limestone
Basalt	0.19	10	10	0.083	8.3	0.28	Basalt
Volcanic Tuff	0.20	10	10	0.083	8.3	0.30	Volcanic Tuff
Standing Liquids	X	10	10	0.083	8.3	1.48	Standing Liquids

1	*2*	*3*	*4*	*5*	*6*
0.083	**0.166**	**0.250**	**0.332**	**0.415**	**0.500**
7	*8*	*9*	*10*	*11*	*12*
0.581	**0.664**	**0.750**	**0.830**	**0.913**	**1.000**

NOTE: This is an **estimate** tool designed for quick field estimates of whether a C-141 should be requred *(I.e. a release is estimated to be greater than or less than 5 barrel volumes)*

Choose the one prevailing ground type for estimating spill volumes at a single location.

Note that the depth should be measured in feet and tenths of feet (1 inch = .083)

Cubic Feet = L x W x D

Estimated Barrels = ((Cubic Feet x Porosity) / 5.61)

MACK ENERGY

WEST MOUNT SPILL I
IMPACT MAP

Round Tank

WEST MOUNT SPILL I

Legend

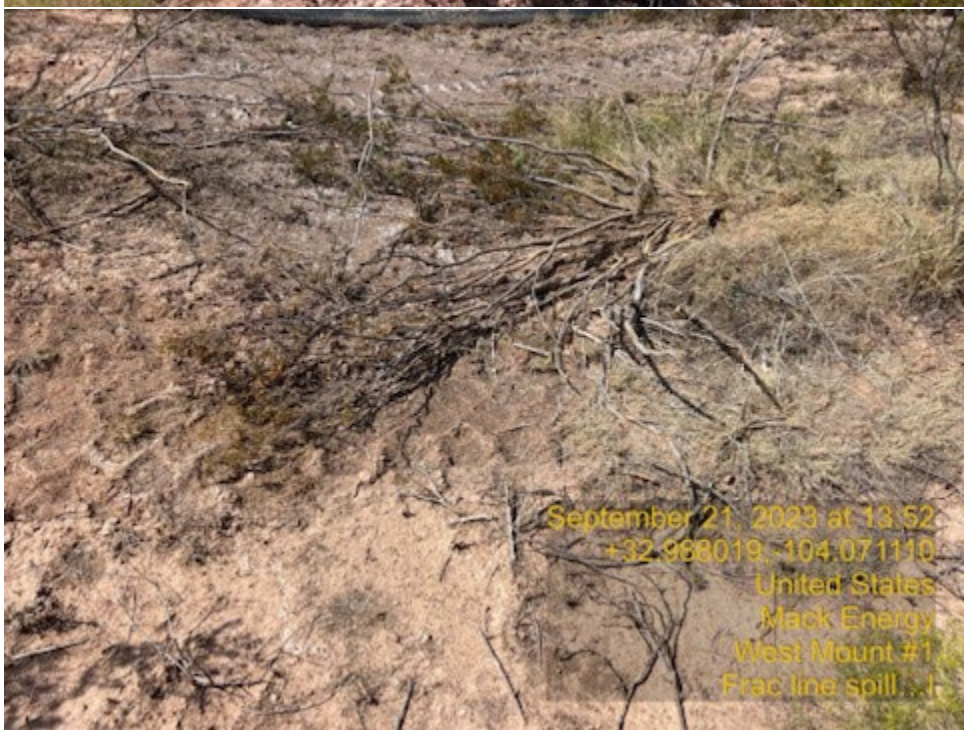
Mack Energy. West Mount #1. frac line spill I 1056 SQ. FT.

N

200 ft

Google Earth

MACK ENERGY CORPORATION
WEST MOUNT SPILL I
INITIAL SITE PHOTOS




September 21, 2023 at 13:52
+32.988019,-104.071110
United States
Mack Energy
West Mount #1
Frac line spill...


September 21, 2023 at 13:52
+32.988019,-104.071110
United States
Mack Energy
West Mount #1
Frac line spill...

MACK ENERGY

WEST MOUNT SPILL I
SITE MAP

Legend

WEST MOUNT SPILL I

Rangeland and Forest Vegetation Classification, Productivity, and Plant Composition

In areas that have similar climate and topography, differences in the kind and amount of rangeland or forest understory vegetation are closely related to the kind of soil. Effective management is based on the relationship between the soils and vegetation and water.

This table shows, for each soil that supports vegetation, the ecological site, plant association, or habitat type; the total annual production of vegetation in favorable, normal, and unfavorable years; the characteristic vegetation; and the average percentage of each species. An explanation of the column headings in the table follows.

An *ecological site, plant association, or habitat type* is the product of all the environmental factors responsible for its development. It has characteristic soils that have developed over time throughout the soil development process; a characteristic hydrology, particularly infiltration and runoff that has developed over time; and a characteristic plant community (kind and amount of vegetation). The hydrology of the site is influenced by development of the soil and plant community. The vegetation, soils, and hydrology are all interrelated. Each is influenced by the others and influences the development of the others. The plant community on an ecological site, plant association, or habitat type is typified by an association of species that differs from that of other ecological sites, plant associations, or habitat types in the kind and/or proportion of species or in total production. Descriptions of ecological sites are provided in the Field Office Technical Guide, which is available in local offices of the Natural Resources Conservation Service (NRCS). Descriptions of plant associations or habitat types are available from local U.S. Forest Service offices.

Total dry-weight production is the amount of vegetation that can be expected to grow annually in a well managed area that is supporting the potential natural plant community. It includes all vegetation, whether or not it is palatable to grazing animals. It includes the current year's growth of leaves, twigs, and fruits of woody plants. It does not include the increase in stem diameter of trees and shrubs. It is expressed in pounds per acre of air-dry vegetation for favorable, normal, and unfavorable years. In a favorable year, the amount and distribution of precipitation and the temperatures make growing conditions substantially better than average. In a normal year, growing conditions are about average. In an unfavorable year, growing conditions are well below average, generally because of low available soil moisture. Yields are adjusted to a common percent of air-dry moisture content.

Characteristic vegetation (the grasses, forbs, shrubs, and understory trees that make up most of the potential natural plant community on each soil) is listed by common name. Under *rangeland composition and forest understory*, the expected percentage of the total annual production is given for each species making up the characteristic vegetation. The percentages are by dry weight for rangeland. Percentages for forest understory are by either dry weight or canopy cover. The amount that can be used as forage depends on the kinds of grazing animals and on the grazing season.

Range management requires knowledge of the kinds of soil and of the potential natural plant community. It also requires an evaluation of the present range similarity index and rangeland trend. Range similarity index is determined by comparing the present plant community with the potential natural plant community on a particular rangeland ecological site. The more closely the existing community resembles the potential community, the higher the range similarity index. Rangeland trend is defined as the direction of change in an existing plant community relative to the potential natural plant community. Further information about the range similarity index and rangeland trend is available in the "National Range and Pasture Handbook," which is available in local offices of NRCS or on the Internet.

The objective in range management is to control grazing so that the plants growing on a site are about the same in kind and amount as the potential natural plant community for that site. Such management generally results in the optimum production of vegetation, control of undesirable brush species, conservation of water, and control of erosion. Sometimes, however, an area with a range similarity index somewhat below the potential meets grazing needs, provides wildlife habitat, and protects soil and water resources.

Reference:
United States Department of Agriculture, Natural Resources Conservation Service, National range and pasture handbook.

Report—Rangeland and Forest Vegetation Classification, Productivity, and Plant Composition

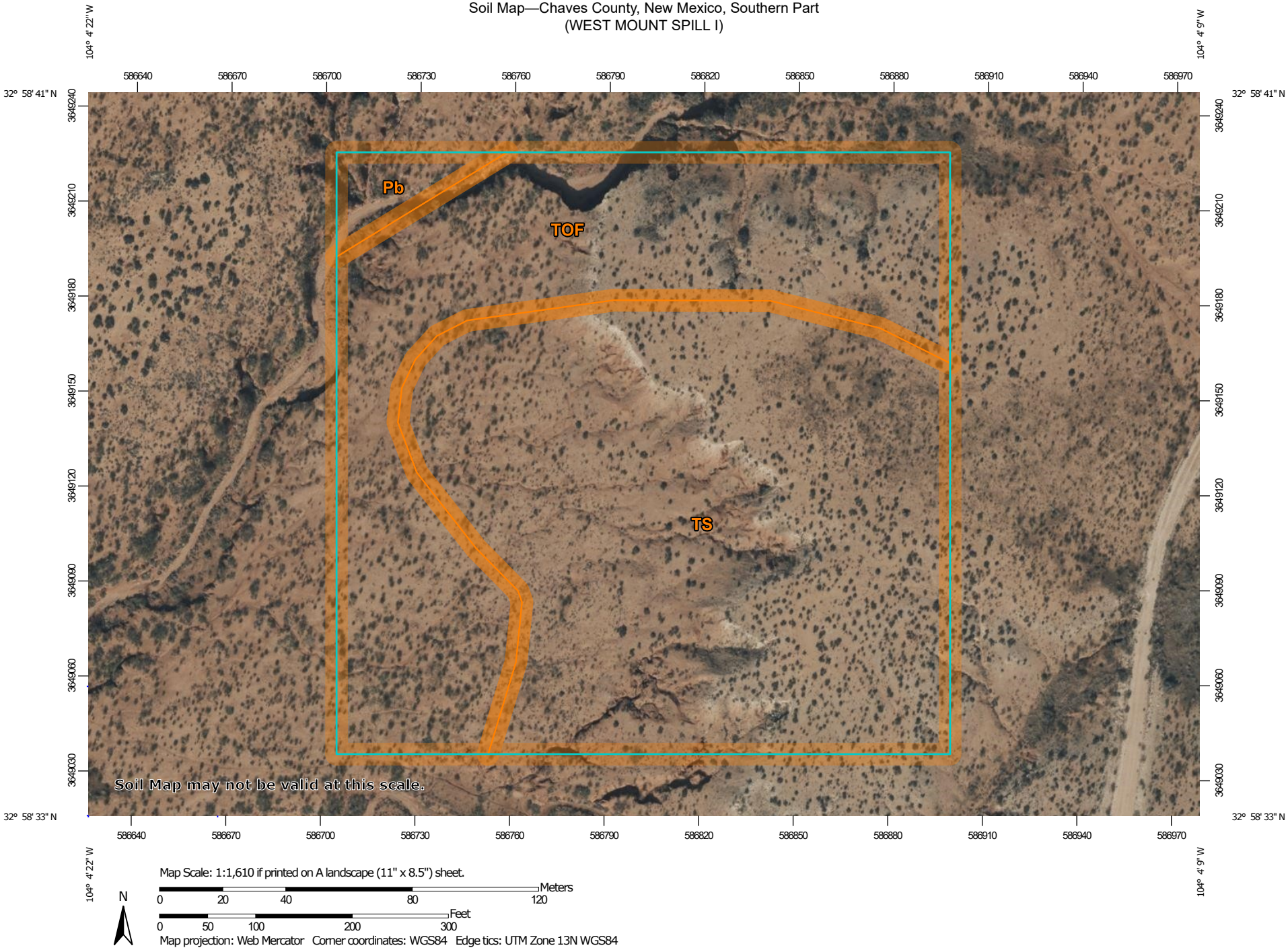
Rangeland and Forest Vegetation Classification, Productivity, and Plant Composition–Chaves County, New Mexico, Southern Part								
Map unit symbol and soil name	**Ecological Site, Plant Association, or Habitat Type**	**Total dry-weight production**			**Characteristic rangeland or forest understory vegetation**	**Composition**		
		Favorable year	**Normal year**	**Unfavorable year**			**Rangeland**	**Forest understory**
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct dry wt*	*Pct dry wt*	
TS—Tencee-Sotim association								

Rangeland and Forest Vegetation Classification, Productivity, and Plant Composition–Chaves County, New Mexico, Southern Part								
Map unit symbol and soil name	Ecological Site, Plant Association, or Habitat Type	Total dry-weight production			Characteristic rangeland or forest understory vegetation	Composition		
		Favorable year	Normal year	Unfavorable year			Rangeland	Forest understory
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct dry wt*	*Pct dry wt*	
Tencee	Shallow (R070BC025NM)	500	375	125	black grama	20		
					bush muhly	20		
					creosotebush	10		
					other perennial forbs	10		
					other perennial grasses	10		
					broom snakeweed	5		
					Eriogonum	5		
					low woollygrass	5		
					mariola	5		
					rabo de ardilla	5		
					sand dropseed	5		
					crown of thorns	3		
					fourwing saltbush	3		
					javelina brush	2		
					Nevada jointfir	2		
Sotim	Sandy (R070BD004NM)	1,200	—	600	black grama	35		
					dropseed	15		
					other perennial forbs	10		
					blue grama	5		
					bush muhly	5		
					little bluestem	5		
					other shrubs	5		
					other perennial grasses	5		
					plains lovegrass	5		
					threeawn	5		
					yucca	5		

Data Source Information

Soil Survey Area: Chaves County, New Mexico, Southern Part
Survey Area Data: Version 18, Sep 7, 2023

Soil Map—Chaves County, New Mexico, Southern Part
(WEST MOUNT SPILL I)



Map Scale: 1:1,610 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 20 40 80 120

Feet
0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84

Soil Map—Chaves County, New Mexico, Southern Part
(WEST MOUNT SPILL I)

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Chaves County, New Mexico, Southern Part
Survey Area Data: Version 18, Sep 7, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Pb	Pajarito-Pintura complex	0.2	2.4%
TOF	Torriorthents, very steep	3.6	39.5%
TS	Tencee-Sotim association	5.3	58.1%
Totals for Area of Interest		**9.2**	**100.0%**

National Flood Hazard Layer FIRMette

FEMA

104°4'34"W 32°58'53"N

104°3'57"W 32°58'22"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/5/2024 at 11:19 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

MACK

WEST MOUNT SPILL I
KARST MAP

Legend
- High
- Low
- Medium
- WEST MOUNT SPILL I

MACK ENERGY

WEST MOUNT SPILL I
WATERCOURSE MAP

New Mexico Office of the State Engineer

Wells with Well Log Information

No wells found.

UTMNAD83 Radius Search (in meters):

Easting (X): 586803.58 **Northing (Y):** 3649127 **Radius:** 1000

New Mexico Office of the State Engineer

Wells with Well Log Information

No wells found.

UTMNAD83 Radius Search (in meters):

Easting (X): 586803.58 **Northing (Y):** 3649127 **Radius:** 5000

New Mexico Office of the State Engineer

Wells with Well Log Information

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(in feet)

POD Number	POD Sub-basin Code	County	Source	q 6416	q 4	q	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number
RA 12428	RA	CH	Shallow	4	2	1	21	15S	28E	580579	3652317	6994	07/28/2016	08/04/2016	08/08/2016	170	125	DONALD KUEHN III	1058
RA 12429 POD1	RA	CH	Shallow	1	1	4	32	15S	28E	579093	3648401	7745	11/17/2016	11/17/2016	11/28/2016	62	27	EADES, ALAN	1044
L 14514 POD1	L	LE	Shallow	2	2	1	32	15S	36E	595494	3649622	8704	08/09/2018	08/10/2018	08/17/2018	208	77	JOHN GOERTZEN	1611
RA 09248	RA	CH	Shallow	1	4	3	17	15S	28E	578704	3652884*	8928	07/10/1996	07/13/1996	07/25/1996	150	45	RAYMOND ANDERSON	1344
RA 10280	RA	CH	Shallow	4	3	3	17	15S	28E	578501	3652680*	9030	06/20/2002	07/15/2002	04/23/2003	70	40	CARREON, FERNANDO	1490
RA 09342	RA	ED	Shallow	4	4	3	19	16S	29E	582737	3640640*	9411	05/02/1998	05/03/1998	05/08/1998	220	110	DELFORD MARTIN	1064
RA 09059	RA	CH	Shallow	2	4	4	18	15S	28E	578099	3652875*	9477	11/13/1995	01/15/1996	02/08/1997	110	35	RAYMOND ANDERSON	1344

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 586803.58 **Northing (Y):** 3649127 **Radius:** 10000

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
20765	L 14514 POD1	2	2	1	32	15S	36E	595494	3649622

Driller License: 1611 **Driller Company:** GOERTZEN DRILLING
Driller Name: JOHN GOERTZEN

Drill Start Date: 08/09/2018 **Drill Finish Date:** 08/10/2018 **Plug Date:**
Log File Date: 08/17/2018 **PCW Rcv Date:** **Source:** Shallow
Pump Type: **Pipe Discharge Size:** **Estimated Yield:**
Casing Size: 5.00 **Depth Well:** 208 feet **Depth Water:** 77 feet

Water Bearing Stratifications:	Top	Bottom	Description
	104	125	Sandstone/Gravel/Conglomerate
	125	150	Sandstone/Gravel/Conglomerate
	150	160	Sandstone/Gravel/Conglomerate
	162	175	Other/Unknown
	175	185	Sandstone/Gravel/Conglomerate
	185	202	Sandstone/Gravel/Conglomerate
	202	205	Other/Unknown
	205	208	Other/Unknown

Casing Perforations:	Top	Bottom
	0	208

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	RA 09248	1	4	3	17	15S	28E	578704	3652884*

Driller License:	1344	**Driller Company:**	ANDERSON, RAYMOND		
Driller Name:	RAYMOND ANDERSON				
Drill Start Date:	07/10/1996	**Drill Finish Date:**	07/13/1996	**Plug Date:**	
Log File Date:	07/25/1996	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	2 GPM
Casing Size:	4.50	**Depth Well:**	150 feet	**Depth Water:**	45 feet

Water Bearing Stratifications:	Top	Bottom	Description
	50	60	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	45	100

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	RA 10280	4	3	3	17	15S	28E	578501	3652680*

Driller License:	1490	**Driller Company:**	FERNANDO'S WATER WELL		
Driller Name:	CARREON, FERNANDO				
Drill Start Date:	06/20/2002	**Drill Finish Date:**	07/15/2002	**Plug Date:**	
Log File Date:	04/23/2003	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:	SUBMER	**Pipe Discharge Size:**	1.25	**Estimated Yield:**	10 GPM
Casing Size:	5.00	**Depth Well:**	70 feet	**Depth Water:**	40 feet

Water Bearing Stratifications:	Top	Bottom	Description
	1	70	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	40	70

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	RA 12428	4	2	1	21	15S	28E	580579	3652317

Driller License: 1058 **Driller Company:** KEY'S DRILLING & PUMP SERVICE

Driller Name: DONALD KUEHN III

Drill Start Date: 07/28/2016 **Drill Finish Date:** 08/04/2016 **Plug Date:**

Log File Date: 08/08/2016 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 15 GPM

Casing Size: 4.50 **Depth Well:** 170 feet **Depth Water:** 125 feet

Water Bearing Stratifications:	Top	Bottom	Description
	125	140	Sandstone/Gravel/Conglomerate
	140	160	Sandstone/Gravel/Conglomerate
	160	170	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	125	170

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	RA 12429 POD1	1	1	4	32	15S	28E	579093	3648401

Driller License:	1044	**Driller Company:**	EADES WELL DRILLING & PUMP SERVICE		
Driller Name:	EADES, ALAN				
Drill Start Date:	11/17/2016	**Drill Finish Date:**	11/17/2016	**Plug Date:**	
Log File Date:	11/28/2016	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	5.13	**Depth Well:**	62 feet	**Depth Water:**	27 feet

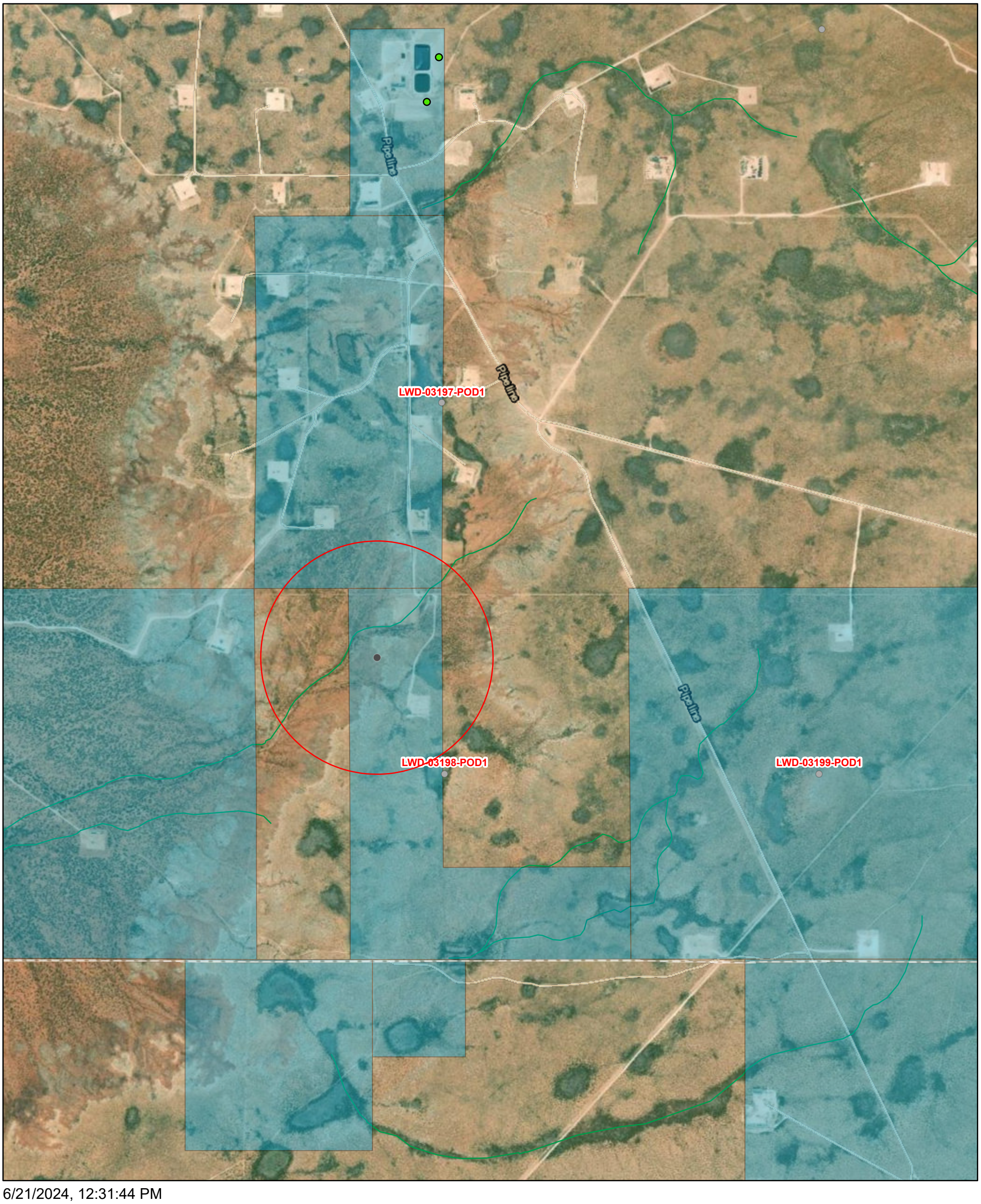
Water Bearing Stratifications:	Top	Bottom	Description
	27	33	Sandstone/Gravel/Conglomerate
	33	62	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	22	62

MACK

WEST MOUNT SPILL I
GROUNDWATER MAP

OSE POD Location Map



6/21/2024, 12:31:44 PM

GIS WATERS PODs

Pending

OSE District Boundary

New Mexico State Trust Lands

Both Estates

NHD Flowlines

Artificial Path

Connector

Stream River

1:18,056

0 0.17 0.35 0.7 mi

0 0.28 0.55 1.1 km

Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar

Online web user

This is an unofficial map from the OSE's online application.

Company Name: MACK **Location Name:** WEST MOUNT SPILL I

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Dates
SP1	SURF	3280	L	ND	ND	ND	ND	ND	4820	12/1/2023
	2	880								
	4	960								
	6	880								
	8	800								
	10	880								
	12	800								
	14	800								
	16	720								
	18	880								
	20	880								
	22	480								
	24	80	L	ND	ND	ND	ND	ND	60	7/11/2024
SP2	SURF	>4000	L	ND	ND	ND	ND	ND	5480	12/1/2023
	2	2400								
	4	2320								
	6	1840								
	8	1600								
	10	1360								
	12	1080								
	14	480								
	16	640								
	18	800								
	20	880								
	22	320								
	24	80	L	ND	ND	ND	ND	ND	54.9	7/11/2024
SP3	SURF	>4000	L	ND	ND	ND	ND	ND	26900	12/1/2023
	2	>4000								
	4	>4000								

	6	>4000								
	8	3520								
	10	3120								
	12	2800								
	14	2000								
	16	1360								
	18	960								
	20	960								
	22	80								
	24	80	L	ND	ND	ND	ND	ND	21.9	7/12/2024
SP4	SURF	1360	H	ND	ND	129	152	281	1530	7/12/2024
	2	>4000								
	4	3120								
	6	2720								
	8	2400								
	10	1840								
	12	1360								
	14	1040								
	16	720								
	18	880								
	20	800								
	22	400								
	24	80	L	ND	ND	ND	ND	ND	37.3	7/14/2024
SW1	SURF	80	L	ND	ND	ND	61.9	61.19	ND	12/1/2023
	1	1760								
	2	1280								
	3	1040								
	4	1040								
	5	880								
	6	720								
	7	400								
	8	320	L	ND	ND	ND	ND	ND	206	7/11/2024

SW2	SURF	1200	L	ND	ND	ND	ND	ND	**1670**	12/1/2023
	1	1320								
	2	1200								
	3	1120								
	4	880								
	5	640								
	6	640								
	7	400								
	8	400	L	ND	ND	ND	ND	ND	210	7/11/2024
SW3	SURF	>4000	L	ND	ND	ND	ND	ND	**11500**	12/1/2023
	1	1040								
	2	1040								
	3	800								
	4	640								
	5	320								
	6	240	L	ND	ND	ND	ND	ND	74.3	7/11/2024
SW4	SURF	>4000	L	ND	ND	ND	ND	ND	**6220**	12/1/2023
	1	960								
	2	720								
	3	400								
	4	240	L	ND	ND	ND	ND	ND	74.1	7/11/2024

MACK ENERGY

WEST MOUNT SPILL I
DELINEATION MAP

Legend

- HORIZONTAL SAMPLE POINTS
- Mack Energy- West Mount Spill I- 1056 SQ. FT.
- VERTICAL SAMPLE POINTS

SW1
SP1
SW4
SP2
SP4
SW2
SP3
SW3

Google Earth

N

40 ft

COMPANY: MACK ENERGY

LOCATION: WEST MOUNT SPILL I

POINT	LATITUDE	LONGITUDE
SP1	32.988091°	-104.071096°
SP2	32.988046°	-104.071094°
SP3	32.988006°	-104.071142°
SP4	32.988050°	-104.071144°
SW1	32.988117°	-104.071084°
SW2	32.988028°	-104.071101°
SW3	32.987992°	-104.071153°
SW4	32.988062°	-104.071141°

Report to:

Natalie Gladden

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill I

Work Order: E312020

Job Number: 20046-0001

Received: 12/5/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/6/23

Date Reported: 12/6/23

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount Spill I
Workorder: E312020
Date Received: 12/5/2023 7:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/5/2023 7:30:00AM, under the Project Name: West Mount Spill I.

The analytical test results summarized in this report with the Project Name: West Mount Spill I apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
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Michelle Golzales
Client Representative
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Mack Energy	Project Name:	West Mount Spill I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/06/23 16:40

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1-Surf	E312020-01A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SP2-Surf	E312020-02A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SP3-Surf	E312020-03A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/6/2023 4:40:07PM

SP1-Surf

E312020-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2349033
Benzene	ND	0.0250	1	12/05/23	12/06/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/06/23	
Toluene	ND	0.0250	1	12/05/23	12/06/23	
o-Xylene	ND	0.0250	1	12/05/23	12/06/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/06/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/06/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.4 %*	*70-130*	*12/05/23*	*12/06/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2349033
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/06/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.3 %*	*70-130*	*12/05/23*	*12/06/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2349046
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/06/23	
Surrogate: n-Nonane		*86.9 %*	*50-200*	*12/05/23*	*12/06/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2349051
Chloride	**4820**	40.0	2	12/05/23	12/06/23	

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/6/2023 4:40:07PM

SP2-Surf

E312020-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2349033
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.2 %*	*70-130*	*12/05/23*	*12/05/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2349033
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.9 %*	*70-130*	*12/05/23*	*12/05/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2349046
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/06/23	
Surrogate: n-Nonane		*87.6 %*	*50-200*	*12/05/23*	*12/06/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2349051
Chloride	**5480**	200	10	12/05/23	12/06/23	

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/6/2023 4:40:07PM

SP3-Surf

E312020-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2349033
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.0 %*	*70-130*	*12/05/23*	*12/05/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2349033
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.0 %*	*70-130*	*12/05/23*	*12/05/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2349046
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/06/23	
Surrogate: n-Nonane		*85.3 %*	*50-200*	*12/05/23*	*12/06/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2349051
Chloride	**26900**	1000	50	12/05/23	12/06/23	

QC Summary Data

Mack Energy	Project Name:	West Mount Spill I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/6/2023 4:40:07PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2349033-BLK1)									Prepared: 12/05/23 Analyzed: 12/05/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.72*		*8.00*		*96.5*	*70-130*			
LCS (2349033-BS1)									Prepared: 12/05/23 Analyzed: 12/05/23
Benzene	5.44	0.0250	5.00		109	70-130			
Ethylbenzene	5.40	0.0250	5.00		108	70-130			
Toluene	5.45	0.0250	5.00		109	70-130			
o-Xylene	5.40	0.0250	5.00		108	70-130			
p,m-Xylene	11.0	0.0500	10.0		110	70-130			
Total Xylenes	16.4	0.0250	15.0		109	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.93*		*8.00*		*99.1*	*70-130*			
Matrix Spike (2349033-MS1)				**Source: E312021-06**					Prepared: 12/05/23 Analyzed: 12/05/23
Benzene	5.31	0.0250	5.00	ND	106	54-133			
Ethylbenzene	5.25	0.0250	5.00	ND	105	61-133			
Toluene	5.30	0.0250	5.00	ND	106	61-130			
o-Xylene	5.27	0.0250	5.00	ND	105	63-131			
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131			
Total Xylenes	16.0	0.0250	15.0	ND	106	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.92*		*8.00*		*99.0*	*70-130*			
Matrix Spike Dup (2349033-MSD1)				**Source: E312021-06**					Prepared: 12/05/23 Analyzed: 12/05/23
Benzene	5.58	0.0250	5.00	ND	112	54-133	5.01	20	
Ethylbenzene	5.54	0.0250	5.00	ND	111	61-133	5.37	20	
Toluene	5.58	0.0250	5.00	ND	112	61-130	5.17	20	
o-Xylene	5.56	0.0250	5.00	ND	111	63-131	5.44	20	
p,m-Xylene	11.3	0.0500	10.0	ND	113	63-131	5.32	20	
Total Xylenes	16.8	0.0250	15.0	ND	112	63-131	5.36	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.73*		*8.00*		*96.6*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount Spill I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/6/2023 4:40:07PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2349033-BLK1)									Prepared: 12/05/23 Analyzed: 12/05/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.95*		*8.00*		*86.8*	*70-130*			
LCS (2349033-BS2)									Prepared: 12/05/23 Analyzed: 12/05/23
Gasoline Range Organics (C6-C10)	52.8	20.0	50.0		106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.02*		*8.00*		*87.8*	*70-130*			
Matrix Spike (2349033-MS2)				**Source: E312021-06**					Prepared: 12/05/23 Analyzed: 12/05/23
Gasoline Range Organics (C6-C10)	50.8	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.27*		*8.00*		*90.9*	*70-130*			
Matrix Spike Dup (2349033-MSD2)				**Source: E312021-06**					Prepared: 12/05/23 Analyzed: 12/05/23
Gasoline Range Organics (C6-C10)	52.4	20.0	50.0	ND	105	70-130	3.07	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.18*		*8.00*		*89.7*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount Spill I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/6/2023 4:40:07PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2349046-BLK1)									Prepared: 12/05/23 Analyzed: 12/06/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*45.3*		*50.0*		*90.6*	*50-200*			
LCS (2349046-BS1)									Prepared: 12/05/23 Analyzed: 12/06/23
Diesel Range Organics (C10-C28)	223	25.0	250		89.1	38-132			
Surrogate: n-Nonane	*42.9*		*50.0*		*85.9*	*50-200*			
Matrix Spike (2349046-MS1)				**Source: E312015-03**					Prepared: 12/05/23 Analyzed: 12/06/23
Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132			
Surrogate: n-Nonane	*44.2*		*50.0*		*88.5*	*50-200*			
Matrix Spike Dup (2349046-MSD1)				**Source: E312015-03**					Prepared: 12/05/23 Analyzed: 12/06/23
Diesel Range Organics (C10-C28)	266	25.0	250	ND	107	38-132	3.50	20	
Surrogate: n-Nonane	*45.5*		*50.0*		*90.9*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount Spill I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/6/2023 4:40:07PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2349051-BLK1)									Prepared: 12/05/23 Analyzed: 12/05/23
Chloride	ND	20.0							
LCS (2349051-BS1)									Prepared: 12/05/23 Analyzed: 12/05/23
Chloride	248	20.0	250		99.1	90-110			
Matrix Spike (2349051-MS1)				**Source: E312017-01**					Prepared: 12/05/23 Analyzed: 12/05/23
Chloride	251	20.0	250	ND	101	80-120			
Matrix Spike Dup (2349051-MSD1)				**Source: E312017-01**					Prepared: 12/05/23 Analyzed: 12/05/23
Chloride	254	20.0	250	ND	102	80-120	1.02	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/06/23 16:40

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information

Chain of Custody

Page 1 of 1

Client: Mack Energy	
Project: Westmount Spill I	
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only

Lab WO# E312020
Job Number 20046-0001

TAT: 1D | 2D (X) | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM (X) | CO | UT | AZ | TX

Analysis and Method

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM	BGDOC TX			Remarks
	12/1/23	S	1	Sp1-surf	1									X				
	1	1	1	Sp2-surf	2									1				
	12/1/23	S	1	Sp3-surf	3									X				

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Andy Tarvaje

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Andy Tarvaje	12/1/23		Michelle Gant	12-4-23	1315
Michelle Gant	12-4-23	1630	Andrew Nesse	12.4.23	1630
Andrew Nesse	12.4.23	2245	Amontero	12/5/23	7:30

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 12/5/2023 9:43:08AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Mack Energy	Date Received:	12/05/23 07:30	Work Order ID:	E312020
Phone:	(575) 390-6397	Date Logged In:	12/04/23 15:17	Logged In By:	Jordan Montano
Email:	Natalie@energystaffingllc.com	Due Date:	12/06/23 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	No	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Comments/Resolution

Project manager and time sampled are not documented on COC by client.

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Natalie Gladden

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name:	West Mount Spill I
Work Order:	E407105
Job Number:	20046-0001
Received:	7/15/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/16/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/16/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount Spill I
Workorder: E407105
Date Received: 7/15/2024 9:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/15/2024 9:00:00AM, under the Project Name: West Mount Spill I.

The analytical test results summarized in this report with the Project Name: West Mount Spill I apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Mack Energy	Project Name:	West Mount Spill I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/16/24 14:49

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Sw 1 - 8'	E407105-01A	Soil	07/11/24	07/15/24	Glass Jar, 2 oz.
Sw 2 - 8'	E407105-02A	Soil	07/11/24	07/15/24	Glass Jar, 2 oz.
Sw 3 - 6'	E407105-03A	Soil	07/11/24	07/15/24	Glass Jar, 2 oz.
Sw 4 - 4'	E407105-04A	Soil	07/11/24	07/15/24	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/16/2024 2:49:12PM

Sw 1 - 8'

E407105-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2429002
Benzene	ND	0.0250	1	07/15/24	07/16/24	
Ethylbenzene	ND	0.0250	1	07/15/24	07/16/24	
Toluene	ND	0.0250	1	07/15/24	07/16/24	
o-Xylene	ND	0.0250	1	07/15/24	07/16/24	
p,m-Xylene	ND	0.0500	1	07/15/24	07/16/24	
Total Xylenes	ND	0.0250	1	07/15/24	07/16/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.2 %*	*70-130*	*07/15/24*	*07/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2429002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/24	07/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.9 %*	*70-130*	*07/15/24*	*07/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2429009
Diesel Range Organics (C10-C28)	ND	25.0	1	07/15/24	07/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/15/24	07/16/24	
Surrogate: n-Nonane		*69.7 %*	*50-200*	*07/15/24*	*07/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2429006
Chloride	**206**	20.0	1	07/15/24	07/15/24	

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/16/2024 2:49:12PM

Sw 2 - 8'

E407105-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2429002
Benzene	ND	0.0250	1	07/15/24	07/16/24	
Ethylbenzene	ND	0.0250	1	07/15/24	07/16/24	
Toluene	ND	0.0250	1	07/15/24	07/16/24	
o-Xylene	ND	0.0250	1	07/15/24	07/16/24	
p,m-Xylene	ND	0.0500	1	07/15/24	07/16/24	
Total Xylenes	ND	0.0250	1	07/15/24	07/16/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.5 %*	*70-130*	*07/15/24*	*07/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2429002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/24	07/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.9 %*	*70-130*	*07/15/24*	*07/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2429009
Diesel Range Organics (C10-C28)	ND	25.0	1	07/15/24	07/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/15/24	07/16/24	
Surrogate: n-Nonane		*85.6 %*	*50-200*	*07/15/24*	*07/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2429006
Chloride	**210**	20.0	1	07/15/24	07/15/24	

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/16/2024 2:49:12PM

Sw 3 - 6'

E407105-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2429002
Benzene	ND	0.0250	1	07/15/24	07/16/24	
Ethylbenzene	ND	0.0250	1	07/15/24	07/16/24	
Toluene	ND	0.0250	1	07/15/24	07/16/24	
o-Xylene	ND	0.0250	1	07/15/24	07/16/24	
p,m-Xylene	ND	0.0500	1	07/15/24	07/16/24	
Total Xylenes	ND	0.0250	1	07/15/24	07/16/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.0 %*	*70-130*	*07/15/24*	*07/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2429002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/24	07/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.4 %*	*70-130*	*07/15/24*	*07/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2429009
Diesel Range Organics (C10-C28)	ND	25.0	1	07/15/24	07/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/15/24	07/16/24	
Surrogate: n-Nonane		*76.9 %*	*50-200*	*07/15/24*	*07/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2429006
Chloride	**74.3**	20.0	1	07/15/24	07/15/24	

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/16/2024 2:49:12PM

Sw 4 - 4'

E407105-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2429002
Benzene	ND	0.0250	1	07/15/24	07/16/24	
Ethylbenzene	ND	0.0250	1	07/15/24	07/16/24	
Toluene	ND	0.0250	1	07/15/24	07/16/24	
o-Xylene	ND	0.0250	1	07/15/24	07/16/24	
p,m-Xylene	ND	0.0500	1	07/15/24	07/16/24	
Total Xylenes	ND	0.0250	1	07/15/24	07/16/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.3 %*	*70-130*	*07/15/24*	*07/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2429002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/24	07/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.3 %*	*70-130*	*07/15/24*	*07/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2429009
Diesel Range Organics (C10-C28)	ND	25.0	1	07/15/24	07/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/15/24	07/16/24	
Surrogate: n-Nonane		*81.2 %*	*50-200*	*07/15/24*	*07/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2429006
Chloride	**74.1**	20.0	1	07/15/24	07/15/24	

QC Summary Data

Mack Energy	Project Name:	West Mount Spill I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/16/2024 2:49:12PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2429002-BLK1)									Prepared: 07/15/24 Analyzed: 07/15/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*6.95*		*8.00*		*86.9*	*70-130*			
LCS (2429002-BS1)									Prepared: 07/15/24 Analyzed: 07/15/24
Benzene	4.80	0.0250	5.00		96.1	70-130			
Ethylbenzene	4.65	0.0250	5.00		92.9	70-130			
Toluene	4.75	0.0250	5.00		95.0	70-130			
o-Xylene	4.61	0.0250	5.00		92.2	70-130			
p,m-Xylene	9.46	0.0500	10.0		94.6	70-130			
Total Xylenes	14.1	0.0250	15.0		93.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*6.91*		*8.00*		*86.4*	*70-130*			
Matrix Spike (2429002-MS1)				**Source: E407093-03**					Prepared: 07/15/24 Analyzed: 07/15/24
Benzene	4.59	0.0250	5.00	ND	91.8	54-133			
Ethylbenzene	4.43	0.0250	5.00	ND	88.6	61-133			
Toluene	4.54	0.0250	5.00	ND	90.7	61-130			
o-Xylene	4.41	0.0250	5.00	ND	88.2	63-131			
p,m-Xylene	9.02	0.0500	10.0	ND	90.2	63-131			
Total Xylenes	13.4	0.0250	15.0	ND	89.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*6.89*		*8.00*		*86.2*	*70-130*			
Matrix Spike Dup (2429002-MSD1)				**Source: E407093-03**					Prepared: 07/15/24 Analyzed: 07/15/24
Benzene	4.07	0.0250	5.00	ND	81.3	54-133	12.1	20	
Ethylbenzene	3.92	0.0250	5.00	ND	78.4	61-133	12.3	20	
Toluene	4.01	0.0250	5.00	ND	80.3	61-130	12.2	20	
o-Xylene	3.91	0.0250	5.00	ND	78.1	63-131	12.1	20	
p,m-Xylene	8.00	0.0500	10.0	ND	80.0	63-131	12.0	20	
Total Xylenes	11.9	0.0250	15.0	ND	79.4	63-131	12.0	20	
Surrogate: 4-Bromochlorobenzene-PID	*6.84*		*8.00*		*85.5*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount Spill I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/16/2024 2:49:12PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2429002-BLK1)									Prepared: 07/15/24 Analyzed: 07/15/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.74*		*8.00*		*96.7*	*70-130*			
LCS (2429002-BS2)									Prepared: 07/15/24 Analyzed: 07/15/24
Gasoline Range Organics (C6-C10)	47.2	20.0	50.0		94.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.77*		*8.00*		*97.1*	*70-130*			
Matrix Spike (2429002-MS2)				**Source: E407093-03**					Prepared: 07/15/24 Analyzed: 07/15/24
Gasoline Range Organics (C6-C10)	42.5	20.0	50.0	ND	85.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.85*		*8.00*		*98.2*	*70-130*			
Matrix Spike Dup (2429002-MSD2)				**Source: E407093-03**					Prepared: 07/15/24 Analyzed: 07/15/24
Gasoline Range Organics (C6-C10)	46.7	20.0	50.0	ND	93.4	70-130	9.43	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.84*		*8.00*		*98.0*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount Spill I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/16/2024 2:49:12PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2429009-BLK1)									Prepared: 07/15/24 Analyzed: 07/16/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*37.8*		*50.0*		*75.5*	*50-200*			
LCS (2429009-BS1)									Prepared: 07/15/24 Analyzed: 07/16/24
Diesel Range Organics (C10-C28)	243	25.0	250		97.1	38-132			
Surrogate: n-Nonane	*45.7*		*50.0*		*91.4*	*50-200*			
Matrix Spike (2429009-MS1)				**Source: E407093-04**					Prepared: 07/15/24 Analyzed: 07/16/24
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.3	38-132			
Surrogate: n-Nonane	*34.6*		*50.0*		*69.2*	*50-200*			
Matrix Spike Dup (2429009-MSD1)				**Source: E407093-04**					Prepared: 07/15/24 Analyzed: 07/16/24
Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	38-132	17.6	20	
Surrogate: n-Nonane	*44.9*		*50.0*		*89.8*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount Spill I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/16/2024 2:49:12PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2429006-BLK1)									Prepared: 07/15/24 Analyzed: 07/15/24
Chloride	ND	20.0							
LCS (2429006-BS1)									Prepared: 07/15/24 Analyzed: 07/15/24
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2429006-MS1)				**Source: E407095-01**					Prepared: 07/15/24 Analyzed: 07/15/24
Chloride	4730	200	250	4370	143	80-120			M4
Matrix Spike Dup (2429006-MSD1)				**Source: E407095-01**					Prepared: 07/15/24 Analyzed: 07/15/24
Chloride	4760	200	250	4370	157	80-120	0.762	20	M4

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/16/24 14:49

M4	Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information | Chain of Custody | Page 1 of 1

Client: Mach Energy	
Project: West Mount Spill I	
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only

Lab WO# E407108 (5) | Job Number 20046-0001

TAT

1D	2D	3D	Standard
	X		

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX
X				

Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	07/11	S	1	SW 1 - 8'	1							X		
	〃	〃	〃	SW 2 - 8'	2							〃		
	〃	〃	〃	SW 3 - 6'	3							〃		
	07/11	S	1	SW 4 - 4'	4							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Juan Solis

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Juan Solis	07/11/24		Michelle Gonzales	7.12.24	1030
Michelle Gonzales	7-12-24	1625	C.M.	7.12.24	1900
C.M.	7.12.24	2400	Alexa Michaels	7/15/24	900

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 7/15/2024 11:05:21AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Mack Energy	Date Received:	07/15/24 00:00	Work Order ID:	E407105
Phone:	(575) 390-6397	Date Logged In:	07/12/24 16:01	Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	07/16/24 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Couier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Comments/Resolution

Project manager and time sampled are not listed on the COC by client.

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Natalie Gladden

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount (I)

Work Order: E407106

Job Number: 20046-0001

Received: 7/15/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/16/24

Date Reported: 7/16/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount (I)
Workorder: E407106
Date Received: 7/15/2024 9:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/15/2024 9:00:00AM, under the Project Name: West Mount (I).

The analytical test results summarized in this report with the Project Name: West Mount (I) apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

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Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Mack Energy	Project Name:	West Mount (I)	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/16/24 14:50

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP 1-24'	E407106-01A	Soil	07/11/24	07/15/24	Glass Jar, 2 oz.
SP 2-24'	E407106-02A	Soil	07/11/24	07/15/24	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount (I)	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/16/2024 2:50:39PM

SP 1-24'

E407106-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2429002
Benzene	ND	0.0250	1	07/15/24	07/16/24	
Ethylbenzene	ND	0.0250	1	07/15/24	07/16/24	
Toluene	ND	0.0250	1	07/15/24	07/16/24	
o-Xylene	ND	0.0250	1	07/15/24	07/16/24	
p,m-Xylene	ND	0.0500	1	07/15/24	07/16/24	
Total Xylenes	ND	0.0250	1	07/15/24	07/16/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.4 %*	*70-130*	*07/15/24*	*07/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2429002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/24	07/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.0 %*	*70-130*	*07/15/24*	*07/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2429009
Diesel Range Organics (C10-C28)	ND	25.0	1	07/15/24	07/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/15/24	07/16/24	
Surrogate: n-Nonane		*84.6 %*	*50-200*	*07/15/24*	*07/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2429006
Chloride	**60.0**	20.0	1	07/15/24	07/15/24	

Sample Data

Mack Energy	Project Name:	West Mount (I)	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/16/2024 2:50:39PM

SP 2-24'

E407106-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2429002
Benzene	ND	0.0250	1	07/15/24	07/16/24	
Ethylbenzene	ND	0.0250	1	07/15/24	07/16/24	
Toluene	ND	0.0250	1	07/15/24	07/16/24	
o-Xylene	ND	0.0250	1	07/15/24	07/16/24	
p,m-Xylene	ND	0.0500	1	07/15/24	07/16/24	
Total Xylenes	ND	0.0250	1	07/15/24	07/16/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.2 %*	*70-130*	*07/15/24*	*07/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2429002
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/15/24	07/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.1 %*	*70-130*	*07/15/24*	*07/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2429009
Diesel Range Organics (C10-C28)	ND	25.0	1	07/15/24	07/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/15/24	07/16/24	
Surrogate: n-Nonane		*85.6 %*	*50-200*	*07/15/24*	*07/16/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2429006
Chloride	**54.9**	20.0	1	07/15/24	07/15/24	

QC Summary Data

Mack Energy	Project Name:	West Mount (I)	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/16/2024 2:50:39PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2429002-BLK1)									Prepared: 07/15/24 Analyzed: 07/15/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*6.95*		*8.00*		*86.9*	*70-130*			
LCS (2429002-BS1)									Prepared: 07/15/24 Analyzed: 07/15/24
Benzene	4.80	0.0250	5.00		96.1	70-130			
Ethylbenzene	4.65	0.0250	5.00		92.9	70-130			
Toluene	4.75	0.0250	5.00		95.0	70-130			
o-Xylene	4.61	0.0250	5.00		92.2	70-130			
p,m-Xylene	9.46	0.0500	10.0		94.6	70-130			
Total Xylenes	14.1	0.0250	15.0		93.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*6.91*		*8.00*		*86.4*	*70-130*			
Matrix Spike (2429002-MS1)				**Source: E407093-03**					Prepared: 07/15/24 Analyzed: 07/15/24
Benzene	4.59	0.0250	5.00	ND	91.8	54-133			
Ethylbenzene	4.43	0.0250	5.00	ND	88.6	61-133			
Toluene	4.54	0.0250	5.00	ND	90.7	61-130			
o-Xylene	4.41	0.0250	5.00	ND	88.2	63-131			
p,m-Xylene	9.02	0.0500	10.0	ND	90.2	63-131			
Total Xylenes	13.4	0.0250	15.0	ND	89.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*6.89*		*8.00*		*86.2*	*70-130*			
Matrix Spike Dup (2429002-MSD1)				**Source: E407093-03**					Prepared: 07/15/24 Analyzed: 07/15/24
Benzene	4.07	0.0250	5.00	ND	81.3	54-133	12.1	20	
Ethylbenzene	3.92	0.0250	5.00	ND	78.4	61-133	12.3	20	
Toluene	4.01	0.0250	5.00	ND	80.3	61-130	12.2	20	
o-Xylene	3.91	0.0250	5.00	ND	78.1	63-131	12.1	20	
p,m-Xylene	8.00	0.0500	10.0	ND	80.0	63-131	12.0	20	
Total Xylenes	11.9	0.0250	15.0	ND	79.4	63-131	12.0	20	
Surrogate: 4-Bromochlorobenzene-PID	*6.84*		*8.00*		*85.5*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount (I)	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/16/2024 2:50:39PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2429002-BLK1)									Prepared: 07/15/24 Analyzed: 07/15/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.74*		*8.00*		*96.7*	*70-130*			
LCS (2429002-BS2)									Prepared: 07/15/24 Analyzed: 07/15/24
Gasoline Range Organics (C6-C10)	47.2	20.0	50.0		94.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.77*		*8.00*		*97.1*	*70-130*			
Matrix Spike (2429002-MS2)				**Source: E407093-03**					Prepared: 07/15/24 Analyzed: 07/15/24
Gasoline Range Organics (C6-C10)	42.5	20.0	50.0	ND	85.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.85*		*8.00*		*98.2*	*70-130*			
Matrix Spike Dup (2429002-MSD2)				**Source: E407093-03**					Prepared: 07/15/24 Analyzed: 07/15/24
Gasoline Range Organics (C6-C10)	46.7	20.0	50.0	ND	93.4	70-130	9.43	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.84*		*8.00*		*98.0*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount (I)	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/16/2024 2:50:39PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2429009-BLK1)									Prepared: 07/15/24 Analyzed: 07/16/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*37.8*		*50.0*		*75.5*	*50-200*			
LCS (2429009-BS1)									Prepared: 07/15/24 Analyzed: 07/16/24
Diesel Range Organics (C10-C28)	243	25.0	250		97.1	38-132			
Surrogate: n-Nonane	*45.7*		*50.0*		*91.4*	*50-200*			
Matrix Spike (2429009-MS1)				**Source: E407093-04**					Prepared: 07/15/24 Analyzed: 07/16/24
Diesel Range Organics (C10-C28)	226	25.0	250	ND	90.3	38-132			
Surrogate: n-Nonane	*34.6*		*50.0*		*69.2*	*50-200*			
Matrix Spike Dup (2429009-MSD1)				**Source: E407093-04**					Prepared: 07/15/24 Analyzed: 07/16/24
Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	38-132	17.6	20	
Surrogate: n-Nonane	*44.9*		*50.0*		*89.8*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount (I)	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/16/2024 2:50:39PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2429006-BLK1)									Prepared: 07/15/24 Analyzed: 07/15/24
Chloride	ND	20.0							
LCS (2429006-BS1)									Prepared: 07/15/24 Analyzed: 07/15/24
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2429006-MS1)				**Source: E407095-01**					Prepared: 07/15/24 Analyzed: 07/15/24
Chloride	4730	200	250	4370	143	80-120			M4
Matrix Spike Dup (2429006-MSD1)				**Source: E407095-01**					Prepared: 07/15/24 Analyzed: 07/15/24
Chloride	4760	200	250	4370	157	80-120	0.762	20	M4

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Mack Energy	Project Name:	West Mount (I)	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/16/24 14:50

M4	Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information | Chain of Custody | Page 1 of 1

Client:	MACK ENERGY
Project:	WEST MOUNT I
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E407106 | Job Number 20046-0001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	7/11/24	S	1	SP 1-24	1	X	
	7/14/24	S	1	SP 2-24	2	X	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. Rivera

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	7/11/24		Michelle Gonzales	7-12-24	1030
Michelle Gonzales	7-R25	1625		7.12.24	1900
	7.12.24	2400	Alexa Michaels	7/15/24	900

Lab Use Only
Received on ice: Y / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 7/15/2024 11:05:41AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Mack Energy	Date Received:	07/15/24 00:00	Work Order ID:	E407106
Phone:	(575) 390-6397	Date Logged In:	07/12/24 16:05	Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	07/16/24 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Couier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Comments/Resolution

Project manager and time sampled are not listed on the COC by client.

Client Instruction

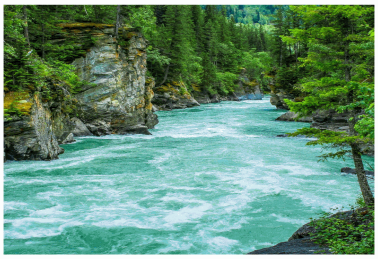
Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Natalie Gladden



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name:	West Mount I
Work Order:	E407115
Job Number:	20046-0001
Received:	7/16/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/17/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/17/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount I
Workorder: E407115
Date Received: 7/16/2024 6:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/16/2024 6:00:00AM, under the Project Name: West Mount I.

The analytical test results summarized in this report with the Project Name: West Mount I apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

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Client Representative
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Mack Energy	Project Name:	West Mount I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/17/24 13:19

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP 4 - SURF	E407115-01A	Soil	07/12/24	07/16/24	Glass Jar, 4 oz.
SP 3 - 24'	E407115-02A	Soil	07/12/24	07/16/24	Glass Jar, 4 oz.
SP 4 - 24'	E407115-03A	Soil	07/14/24	07/16/24	Glass Jar, 4 oz.

Sample Data

Mack Energy	Project Name:	West Mount I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/17/2024 1:19:09PM

SP 4 - SURF

E407115-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2429028
Benzene	ND	0.0250	1	07/16/24	07/16/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/16/24	
Toluene	ND	0.0250	1	07/16/24	07/16/24	
o-Xylene	ND	0.0250	1	07/16/24	07/16/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/16/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/16/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*07/16/24*	*07/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*89.4 %*	*70-130*	*07/16/24*	*07/16/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*07/16/24*	*07/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2429028
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/16/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*07/16/24*	*07/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*89.4 %*	*70-130*	*07/16/24*	*07/16/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*07/16/24*	*07/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2429026
Diesel Range Organics (C10-C28)	**129**	25.0	1	07/16/24	07/17/24	
Oil Range Organics (C28-C36)	**152**	50.0	1	07/16/24	07/17/24	
Surrogate: n-Nonane		*96.6 %*	*50-200*	*07/16/24*	*07/17/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2429030
Chloride	**1530**	20.0	1	07/16/24	07/16/24	

Sample Data

Mack Energy	Project Name:	West Mount I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/17/2024 1:19:09PM

SP 3 - 24'

E407115-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2429028
Benzene	ND	0.0250	1	07/16/24	07/16/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/16/24	
Toluene	ND	0.0250	1	07/16/24	07/16/24	
o-Xylene	ND	0.0250	1	07/16/24	07/16/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/16/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/16/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*07/16/24*	*07/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.5 %*	*70-130*	*07/16/24*	*07/16/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*07/16/24*	*07/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2429028
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/16/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*07/16/24*	*07/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.5 %*	*70-130*	*07/16/24*	*07/16/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*07/16/24*	*07/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2429026
Diesel Range Organics (C10-C28)	ND	25.0	1	07/16/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/16/24	07/17/24	
Surrogate: n-Nonane		*94.3 %*	*50-200*	*07/16/24*	*07/17/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2429030
Chloride	**21.9**	20.0	1	07/16/24	07/16/24	

Sample Data

Mack Energy	Project Name:	West Mount I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/17/2024 1:19:09PM

SP 4 - 24'

E407115-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2429028
Benzene	ND	0.0250	1	07/16/24	07/16/24	
Ethylbenzene	ND	0.0250	1	07/16/24	07/16/24	
Toluene	ND	0.0250	1	07/16/24	07/16/24	
o-Xylene	ND	0.0250	1	07/16/24	07/16/24	
p,m-Xylene	ND	0.0500	1	07/16/24	07/16/24	
Total Xylenes	ND	0.0250	1	07/16/24	07/16/24	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*07/16/24*	*07/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.0 %*	*70-130*	*07/16/24*	*07/16/24*	
Surrogate: Toluene-d8		*119 %*	*70-130*	*07/16/24*	*07/16/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2429028
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/16/24	07/16/24	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*07/16/24*	*07/16/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.0 %*	*70-130*	*07/16/24*	*07/16/24*	
Surrogate: Toluene-d8		*119 %*	*70-130*	*07/16/24*	*07/16/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2429026
Diesel Range Organics (C10-C28)	ND	25.0	1	07/16/24	07/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/16/24	07/17/24	
Surrogate: n-Nonane		*96.6 %*	*50-200*	*07/16/24*	*07/17/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2429030
Chloride	**37.3**	20.0	1	07/16/24	07/16/24	

QC Summary Data

Mack Energy	Project Name:	West Mount I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/17/2024 1:19:09PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2429028-BLK1)									Prepared: 07/16/24 Analyzed: 07/16/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.534*		*0.500*		*107*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.448*		*0.500*		*89.6*	*70-130*			
Surrogate: Toluene-d8	*0.518*		*0.500*		*104*	*70-130*			
LCS (2429028-BS1)									Prepared: 07/16/24 Analyzed: 07/16/24
Benzene	2.22	0.0250	2.50		88.8	70-130			
Ethylbenzene	2.32	0.0250	2.50		92.6	70-130			
Toluene	2.32	0.0250	2.50		92.6	70-130			
o-Xylene	2.45	0.0250	2.50		98.2	70-130			
p,m-Xylene	4.90	0.0500	5.00		98.0	70-130			
Total Xylenes	7.35	0.0250	7.50		98.0	70-130			
Surrogate: Bromofluorobenzene	*0.560*		*0.500*		*112*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.467*		*0.500*		*93.3*	*70-130*			
Surrogate: Toluene-d8	*0.514*		*0.500*		*103*	*70-130*			
Matrix Spike (2429028-MS1)				**Source: E407113-07**					Prepared: 07/16/24 Analyzed: 07/16/24
Benzene	2.26	0.0250	2.50	ND	90.3	48-131			
Ethylbenzene	2.38	0.0250	2.50	ND	95.2	45-135			
Toluene	2.37	0.0250	2.50	ND	94.7	48-130			
o-Xylene	2.51	0.0250	2.50	ND	100	43-135			
p,m-Xylene	5.03	0.0500	5.00	ND	101	43-135			
Total Xylenes	7.54	0.0250	7.50	ND	101	43-135			
Surrogate: Bromofluorobenzene	*0.555*		*0.500*		*111*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.461*		*0.500*		*92.1*	*70-130*			
Surrogate: Toluene-d8	*0.512*		*0.500*		*102*	*70-130*			
Matrix Spike Dup (2429028-MSD1)				**Source: E407113-07**					Prepared: 07/16/24 Analyzed: 07/16/24
Benzene	2.33	0.0250	2.50	ND	93.1	48-131	3.05	23	
Ethylbenzene	2.44	0.0250	2.50	ND	97.8	45-135	2.65	27	
Toluene	2.43	0.0250	2.50	ND	97.1	48-130	2.50	24	
o-Xylene	2.56	0.0250	2.50	ND	102	43-135	1.95	27	
p,m-Xylene	5.11	0.0500	5.00	ND	102	43-135	1.57	27	
Total Xylenes	7.67	0.0250	7.50	ND	102	43-135	1.70	27	
Surrogate: Bromofluorobenzene	*0.547*		*0.500*		*109*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.465*		*0.500*		*92.9*	*70-130*			
Surrogate: Toluene-d8	*0.518*		*0.500*		*104*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/17/2024 1:19:09PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2429028-BLK1)									Prepared: 07/16/24 Analyzed: 07/16/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.534*		*0.500*		*107*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.448*		*0.500*		*89.6*	*70-130*			
Surrogate: Toluene-d8	*0.518*		*0.500*		*104*	*70-130*			
LCS (2429028-BS2)									Prepared: 07/16/24 Analyzed: 07/16/24
Gasoline Range Organics (C6-C10)	55.1	20.0	50.0		110	70-130			
Surrogate: Bromofluorobenzene	*0.549*		*0.500*		*110*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.456*		*0.500*		*91.1*	*70-130*			
Surrogate: Toluene-d8	*0.517*		*0.500*		*103*	*70-130*			
Matrix Spike (2429028-MS2)				**Source: E407113-07**					Prepared: 07/16/24 Analyzed: 07/16/24
Gasoline Range Organics (C6-C10)	52.8	20.0	50.0	ND	106	70-130			
Surrogate: Bromofluorobenzene	*0.541*		*0.500*		*108*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.457*		*0.500*		*91.4*	*70-130*			
Surrogate: Toluene-d8	*0.524*		*0.500*		*105*	*70-130*			
Matrix Spike Dup (2429028-MSD2)				**Source: E407113-07**					Prepared: 07/16/24 Analyzed: 07/16/24
Gasoline Range Organics (C6-C10)	53.6	20.0	50.0	ND	107	70-130	1.49	20	
Surrogate: Bromofluorobenzene	*0.544*		*0.500*		*109*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.455*		*0.500*		*90.9*	*70-130*			
Surrogate: Toluene-d8	*0.519*		*0.500*		*104*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/17/2024 1:19:09PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2429026-BLK1)									Prepared: 07/16/24 Analyzed: 07/16/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*54.6*		*50.0*		*109*	*50-200*			
LCS (2429026-BS1)									Prepared: 07/16/24 Analyzed: 07/16/24
Diesel Range Organics (C10-C28)	295	25.0	250		118	38-132			
Surrogate: n-Nonane	*52.6*		*50.0*		*105*	*50-200*			
Matrix Spike (2429026-MS1)				**Source: E407113-02**					Prepared: 07/16/24 Analyzed: 07/16/24
Diesel Range Organics (C10-C28)	294	25.0	250	ND	118	38-132			
Surrogate: n-Nonane	*49.7*		*50.0*		*99.3*	*50-200*			
Matrix Spike Dup (2429026-MSD1)				**Source: E407113-02**					Prepared: 07/16/24 Analyzed: 07/16/24
Diesel Range Organics (C10-C28)	280	25.0	250	ND	112	38-132	4.77	20	
Surrogate: n-Nonane	*50.8*		*50.0*		*102*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/17/2024 1:19:09PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2429030-BLK1)									Prepared: 07/16/24 Analyzed: 07/16/24
Chloride	ND	20.0							
LCS (2429030-BS1)									Prepared: 07/16/24 Analyzed: 07/16/24
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2429030-MS1)				**Source: E407112-02**					Prepared: 07/16/24 Analyzed: 07/16/24
Chloride	292	20.0	250	35.7	103	80-120			
Matrix Spike Dup (2429030-MSD1)				**Source: E407112-02**					Prepared: 07/16/24 Analyzed: 07/16/24
Chloride	292	20.0	250	35.7	103	80-120	0.0818	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Mack Energy	Project Name:	West Mount I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/17/24 13:19

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information | Chain of Custody | Page 1 of 1

Client:	MACK ENERGY
Project:	WEST MOUNT 1
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

Attention:	ENERGY STAFFING SERVICES
Address:	2724 NW COUNTY RD
City, State, Zip	HOBBS, NM 88240
Phone:	575-393-9048
Email:	NATALIE@ENERGYSTAFFINGLLC.COM
	BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only

Lab WO# E407125 | Job Number 20046-0001

TAT: 1D | 2D (X) | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM (X) | CO | UT | AZ | TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	7/12/24	1	S	SP 4 - SURF	1							X		
	1	1	1	SP 3 - 24"	2							X		
	7/12/24	1	S	SP 4 - 24"	3							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. RIVERA

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	7/12/24		Michelle Gonzales	7-15-24	1320
Michelle Gonzales	7-15-24	1600	[signature] M680	7.15.24	1715
[signature] M680	7.15.24	2330	[signature]	7-16-24	0600

Lab Use Only
Received on ice: (Y) / N
T1 ____ T2 ____ T3 ____
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other ____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 7/16/2024 12:57:13PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Mack Energy	Date Received:	07/16/24 06:00	Work Order ID:	E407115
Phone:	(575) 390-6397	Date Logged In:	07/15/24 17:02	Logged In By:	Noe Soto
Email:	Natalie@energystaffingllc.com	Due Date:	07/17/24 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courrier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Comments/Resolution

Project manager and time sampled are not listed on COC by client.

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

MACK ENERGY CORPORATION
WEST MOUNT SPILL I
DELINEATION PHOTOS


Jul 10, 2024 10:11:27 AM
32.98812855N 104.07123939W
Chaves County
Mack Energy
West mount (i)
samples points
Round
Pipeline
Google


DEERE
350G
Round
Pipeline
Google
Jul 10, 2024 11:17:48 AM
32.9881223N 104.0712286W
Chaves County
Mack Energy
West mount (i)
samples points

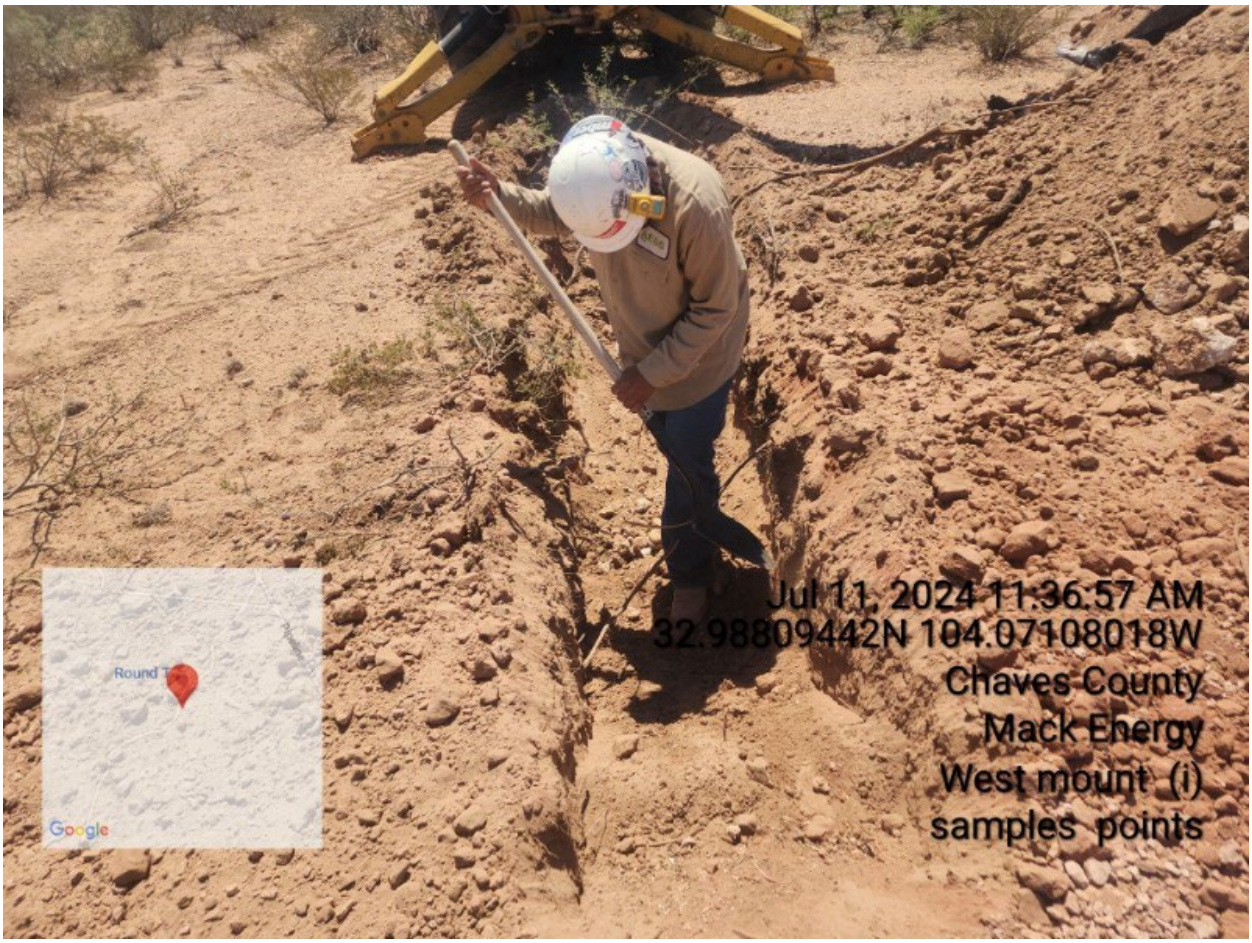

JUAN
ESS
Round
Google
Jul 11, 2024 7:45:47 AM
32.98814058N 104.07124507W
Chaves County
Mack Energy
West mount (i)
samples points


Jul 11, 2024 8:22:09 AM
32.98795037N 104.07117732W
Chaves County
Mack Energy
West mount (i)
samples points
Round
Google


Jul 11, 2024 11:03:16 AM
32.98809806N 104.07106915W
Chaves County
Mack Energy
West mount (i)
samples points
Round T
Google


Jul 11, 2024 11:29:32 AM
32.98816218N 104.07112922W
Chaves County
Mack Energy
West mount (i)
samples points
Round
Google


Jul 11, 2024 11:33:25 AM
32.98812381N 104.07113076W
Chaves County
Mack Energy
West mount (i)
samples points
Round
Google


Jul 11, 2024 11:36:57 AM
32.98809442N 104.07108018W
Chaves County
Mack Energy
West mount (i)
samples points
Google

From: OCDOnline@state.nm.us
To: Natalie Gladden
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 375243
Date: Monday, August 19, 2024 2:41:36 PM

To whom it may concern (c/o Natalie Gladden for MACK ENERGY CORP),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2329756915.

The sampling event is expected to take place:

When: 08/21/2024 @ 07:00
Where: C-31-15S-29E 0 FNL 0 FEL (32.977062,-104.07104)

Additional Information: CONTACT NATALIE GLADDEN 575-390-6397

Additional Instructions: CONTACT NATALIE GLADDEN 575-390-6397

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

Company Na MACK ENERGY **Location Name:** WEST MOUNT SPILL I

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Dates
COMP1	22	240	L	ND	ND	ND	ND	ND	ND	8/21/2024
COMP2	22	240	L	ND	ND	ND	ND	ND	ND	8/21/2024
COMP3	22	240	L	ND	ND	ND	ND	ND	ND	8/21/2024
COMP4	22	320	L	ND	ND	ND	ND	ND	87.6	8/21/2024
COMP5	22	320	L	ND	ND	ND	ND	ND	93.4	8/21/2024
COMP6	22	320	L	ND	ND	ND	ND	ND	95.3	8/21/2024
COMP7	22	320	L	ND	ND	ND	ND	ND	89.3	8/21/2024
SWCOMP1	22	240	L	ND	ND	ND	ND	ND	40.2	8/22/2024
SWCOMP2	22	240	L	ND	ND	ND	ND	ND	38.2	8/22/2024
SWCOMP3	22	240	L	ND	ND	ND	ND	ND	42.4	8/22/2024
SWCOMP4	22	240	L	ND	ND	ND	ND	ND	123	8/22/2024
SWCOMP5	22	240	L	ND	ND	ND	ND	ND	125	8/22/2024
SWCOMP6	22	240	L	ND	ND	ND	ND	ND	80.5	8/22/2024
SWCOMP7	22	240	L	ND	ND	ND	ND	ND	39.8	8/22/2024
SWCOMP8	22	240	L	ND	ND	ND	ND	ND	76.4	8/22/2024
SWCOMP9	22	240	L	ND	ND	ND	ND	ND	41.7	8/22/2024
SWCOMP10	22	240	L	ND	ND	ND	ND	ND	79.4	8/22/2024
SWCOMP11	22	240	L	ND	ND	ND	ND	ND	104	8/23/2024
SWCOMP12	22	240	L	ND	ND	ND	ND	ND	107	8/23/2024
SWCOMP13	22	240	L	ND	ND	ND	ND	ND	58.8	8/23/2024
SWCOMP14	22	240	L	ND	ND	ND	ND	ND	118	8/23/2024
SWCOMP15	22	240	L	ND	ND	ND	ND	ND	91.2	8/23/2024

SWCOMP16	22	240	L	ND	ND	ND	ND	ND	96.4	8/23/2024
SWCOMP17	22	240	L	ND	ND	ND	ND	ND	109	8/23/2024
SWCOMP18	22	240	L	ND	ND	ND	ND	ND	64.5	8/23/2024

COMPANY: MACK ENERGY **LOCATION: WEST MOUNT SPILL I**

POINT	LATITUDE	LONGITUDE
C1	32.988113°	-104.071083°
C2	32.988087°	-104.071092°
C3	32.988065°	-104.071104°
C4	32.988044°	-104.071111°
C5	32.988024°	-104.071122°
C6	32.988011°	-104.071161°
C7	32.987991°	-104.071114°
SWC1	32.988128°	-104.071077°
SWC2	32.988112°	-104.071056°
SWC3	32.988088°	-104.071056°
SWC4	32.988061°	-104.071068°
SWC5	32.988036°	-104.071073°
SWC6	32.988010°	-104.071082°
SWC7	32.987983°	-104.071090°
SWC8	32.987972°	-104.071119°
SWC9	32.987991°	-104.071154°
SWC10	32.988006°	-104.071186°
SWC11	32.988018°	-104.071199°
SWC12	32.988031°	-104.071176°
SWC13	32.988047°	-104.071161°
SWC14	32.988062°	-104.071141°
SWC15	32.988079°	-104.071145°
SWC16	32.988095°	-104.071131°
SWC17	32.988113°	-104.071123°
SWC18	32.988126°	-104.071102°

Report to:

Natalie Gladden

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill I

Work Order: E408193

Job Number: 20046-0001

Received: 8/23/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/26/24

Date Reported: 8/26/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount Spill I
Workorder: E408193
Date Received: 8/23/2024 5:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/23/2024 5:30:00AM, under the Project Name: West Mount Spill I.

The analytical test results summarized in this report with the Project Name: West Mount Spill I apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

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Table of Contents

Sample Summary

Mack Energy	Project Name:	West Mount Spill I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	08/26/24 14:35

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP COMP 1 - 22'	E408193-01A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
SP COMP 2 - 22'	E408193-02A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
SP COMP 3 - 22'	E408193-03A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
SP COMP 4 - 22'	E408193-04A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
SP COMP 5 - 22'	E408193-05A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
SP COMP 6 - 22'	E408193-06A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.
SP COMP 7 - 22'	E408193-07A	Soil	08/21/24	08/23/24	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/26/2024 2:35:34PM

SP COMP 1 - 22'

E408193-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2434079
Benzene	ND	0.0250	1	08/23/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/23/24	
Toluene	ND	0.0250	1	08/23/24	08/23/24	
o-Xylene	ND	0.0250	1	08/23/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/23/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.5 %*	*70-130*	*08/23/24*	*08/23/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2434079
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.4 %*	*70-130*	*08/23/24*	*08/23/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2434075
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/24/24	
Surrogate: n-Nonane		*95.7 %*	*50-200*	*08/23/24*	*08/24/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2434082
Chloride	ND	20.0	1	08/23/24	08/23/24	

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/26/2024 2:35:34PM

SP COMP 2 - 22'

E408193-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2434079
Benzene	ND	0.0250	1	08/23/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/23/24	
Toluene	ND	0.0250	1	08/23/24	08/23/24	
o-Xylene	ND	0.0250	1	08/23/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/23/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.8 %*	*70-130*	*08/23/24*	*08/23/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2434079
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*102 %*	*70-130*	*08/23/24*	*08/23/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2434075
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/24/24	
Surrogate: n-Nonane		*92.3 %*	*50-200*	*08/23/24*	*08/24/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2434082
Chloride	ND	20.0	1	08/23/24	08/23/24	

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/26/2024 2:35:34PM

SP COMP 3 - 22'

E408193-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2434079
Benzene	ND	0.0250	1	08/23/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/23/24	
Toluene	ND	0.0250	1	08/23/24	08/23/24	
o-Xylene	ND	0.0250	1	08/23/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/23/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.0 %*	*70-130*	*08/23/24*	*08/23/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2434079
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*102 %*	*70-130*	*08/23/24*	*08/23/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2434075
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/24/24	
Surrogate: n-Nonane		*97.1 %*	*50-200*	*08/23/24*	*08/24/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2434082
Chloride	ND	20.0	1	08/23/24	08/23/24	

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/26/2024 2:35:34PM

SP COMP 4 - 22'

E408193-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2434079
Benzene	ND	0.0250	1	08/23/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/23/24	
Toluene	ND	0.0250	1	08/23/24	08/23/24	
o-Xylene	ND	0.0250	1	08/23/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/23/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.3 %*	*70-130*	*08/23/24*	*08/23/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2434079
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*102 %*	*70-130*	*08/23/24*	*08/23/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2434075
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/24/24	
Surrogate: n-Nonane		*92.2 %*	*50-200*	*08/23/24*	*08/24/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2434082
Chloride	**87.6**	20.0	1	08/23/24	08/23/24	

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/26/2024 2:35:34PM

SP COMP 5 - 22'

E408193-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2434079
Benzene	ND	0.0250	1	08/23/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/23/24	
Toluene	ND	0.0250	1	08/23/24	08/23/24	
o-Xylene	ND	0.0250	1	08/23/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/23/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.2 %*	*70-130*	*08/23/24*	*08/23/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2434079
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*103 %*	*70-130*	*08/23/24*	*08/23/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2434075
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/24/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*08/23/24*	*08/24/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2434082
Chloride	**93.4**	20.0	1	08/23/24	08/23/24	

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/26/2024 2:35:34PM

SP COMP 6 - 22'

E408193-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2434079
Benzene	ND	0.0250	1	08/23/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/23/24	
Toluene	ND	0.0250	1	08/23/24	08/23/24	
o-Xylene	ND	0.0250	1	08/23/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/23/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.2 %*	*70-130*	*08/23/24*	*08/23/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2434079
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*102 %*	*70-130*	*08/23/24*	*08/23/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2434075
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/24/24	
Surrogate: n-Nonane		*90.9 %*	*50-200*	*08/23/24*	*08/24/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2434082
Chloride	**95.3**	20.0	1	08/23/24	08/23/24	

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/26/2024 2:35:34PM

SP COMP 7 - 22'

E408193-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2434079
Benzene	ND	0.0250	1	08/23/24	08/23/24	
Ethylbenzene	ND	0.0250	1	08/23/24	08/23/24	
Toluene	ND	0.0250	1	08/23/24	08/23/24	
o-Xylene	ND	0.0250	1	08/23/24	08/23/24	
p,m-Xylene	ND	0.0500	1	08/23/24	08/23/24	
Total Xylenes	ND	0.0250	1	08/23/24	08/23/24	
Surrogate: 4-Bromochlorobenzene-PID		*89.9 %*	*70-130*	*08/23/24*	*08/23/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2434079
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/23/24	08/23/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*102 %*	*70-130*	*08/23/24*	*08/23/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2434075
Diesel Range Organics (C10-C28)	ND	25.0	1	08/23/24	08/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/23/24	08/24/24	
Surrogate: n-Nonane		*96.6 %*	*50-200*	*08/23/24*	*08/24/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2434082
Chloride	**89.3**	20.0	1	08/23/24	08/23/24	

QC Summary Data

Mack Energy	Project Name:	West Mount Spill I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/26/2024 2:35:34PM

Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2434079-BLK1)									Prepared: 08/23/24 Analyzed: 08/23/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.12*		*8.00*		*89.0*	*70-130*			
LCS (2434079-BS1)									Prepared: 08/23/24 Analyzed: 08/23/24
Benzene	4.89	0.0250	5.00		97.8	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.3	70-130			
Toluene	4.85	0.0250	5.00		97.0	70-130			
o-Xylene	4.75	0.0250	5.00		95.0	70-130			
p,m-Xylene	9.70	0.0500	10.0		97.0	70-130			
Total Xylenes	14.4	0.0250	15.0		96.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.15*		*8.00*		*89.4*	*70-130*			
Matrix Spike (2434079-MS1)				**Source: E408193-01**					Prepared: 08/23/24 Analyzed: 08/23/24
Benzene	4.88	0.0250	5.00	ND	97.5	54-133			
Ethylbenzene	4.75	0.0250	5.00	ND	94.9	61-133			
Toluene	4.83	0.0250	5.00	ND	96.7	61-130			
o-Xylene	4.71	0.0250	5.00	ND	94.3	63-131			
p,m-Xylene	9.64	0.0500	10.0	ND	96.4	63-131			
Total Xylenes	14.4	0.0250	15.0	ND	95.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.18*		*8.00*		*89.7*	*70-130*			
Matrix Spike Dup (2434079-MSD1)				**Source: E408193-01**					Prepared: 08/23/24 Analyzed: 08/23/24
Benzene	5.05	0.0250	5.00	ND	101	54-133	3.42	20	
Ethylbenzene	4.89	0.0250	5.00	ND	97.8	61-133	2.96	20	
Toluene	5.00	0.0250	5.00	ND	99.9	61-130	3.33	20	
o-Xylene	4.87	0.0250	5.00	ND	97.5	63-131	3.34	20	
p,m-Xylene	9.93	0.0500	10.0	ND	99.3	63-131	3.02	20	
Total Xylenes	14.8	0.0250	15.0	ND	98.7	63-131	3.12	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.18*		*8.00*		*89.7*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount Spill I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/26/2024 2:35:34PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2434079-BLK1)									Prepared: 08/23/24 Analyzed: 08/23/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.66*		*8.00*		*95.8*	*70-130*			
LCS (2434079-BS2)									Prepared: 08/23/24 Analyzed: 08/23/24
Gasoline Range Organics (C6-C10)	43.8	20.0	50.0		87.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.86*		*8.00*		*98.3*	*70-130*			
Matrix Spike (2434079-MS2)				**Source: E408193-01**					Prepared: 08/23/24 Analyzed: 08/23/24
Gasoline Range Organics (C6-C10)	45.3	20.0	50.0	ND	90.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.19*		*8.00*		*102*	*70-130*			
Matrix Spike Dup (2434079-MSD2)				**Source: E408193-01**					Prepared: 08/23/24 Analyzed: 08/23/24
Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.1	70-130	2.73	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.16*		*8.00*		*102*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount Spill I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/26/2024 2:35:34PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2434075-BLK1)									Prepared: 08/23/24 Analyzed: 08/23/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*43.9*		*50.0*		*87.8*	*50-200*			
LCS (2434075-BS1)									Prepared: 08/23/24 Analyzed: 08/23/24
Diesel Range Organics (C10-C28)	203	25.0	250		81.1	38-132			
Surrogate: n-Nonane	*44.3*		*50.0*		*88.7*	*50-200*			
Matrix Spike (2434075-MS1)				**Source: E408191-30**					Prepared: 08/23/24 Analyzed: 08/23/24
Diesel Range Organics (C10-C28)	346	25.0	250	142	81.7	38-132			
Surrogate: n-Nonane	*47.1*		*50.0*		*94.2*	*50-200*			
Matrix Spike Dup (2434075-MSD1)				**Source: E408191-30**					Prepared: 08/23/24 Analyzed: 08/23/24
Diesel Range Organics (C10-C28)	348	25.0	250	142	82.3	38-132	0.441	20	
Surrogate: n-Nonane	*46.1*		*50.0*		*92.2*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount Spill I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/26/2024 2:35:34PM

Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2434082-BLK1)									Prepared: 08/23/24 Analyzed: 08/23/24
Chloride	ND	20.0							
LCS (2434082-BS1)									Prepared: 08/23/24 Analyzed: 08/23/24
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2434082-MS1)				**Source: E408193-03**					Prepared: 08/23/24 Analyzed: 08/23/24
Chloride	266	20.0	250	ND	107	80-120			
Matrix Spike Dup (2434082-MSD1)				**Source: E408193-03**					Prepared: 08/23/24 Analyzed: 08/23/24
Chloride	266	20.0	250	ND	106	80-120	0.339	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	08/26/24 14:35

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Page 1 of 1

Chain of Custody

Project Information

Client: Mack Energy
Project: West Mant SPill I
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E408193
Job Number 20046-0001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	08/21	S	1	SP Comp 1 - 22'	1	X	
				SP Comp 2 - 22'	2		
				SP Comp 3 - 22'	3		
				SP Comp 4 - 22'	4		
				SP Comp 5 - 22'	5		
				SP Comp 6 - 22'	6		
	08/21	S	1	SP Comp 7 - 22'	7	X	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Juan Solis

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Juan Solis	08/21/24			8.22.24	1345
	8.22.24	1630		8.22.24	1630
Andrew Hobbs	8.22.24	2245		8.23.24	0530

Lab Use Only
Received on ice: Y / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 8/23/2024 10:38:44AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Mack Energy	Date Received:	08/23/24 05:30	Work Order ID:	E408193
Phone:	(575) 390-6397	Date Logged In:	08/22/24 16:44	Logged In By:	Noe Soto
Email:	Natalie@energystaffingllc.com	Due Date:	08/26/24 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Comments/Resolution

Project manager and time sampled are missing on COC by client.

Client Instruction

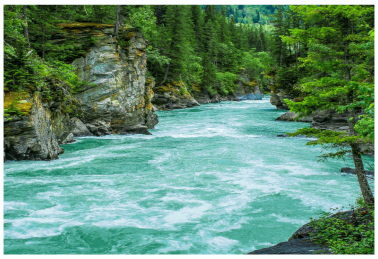
Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Natalie Gladden



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name:	West Mount Spill I
Work Order:	E408202
Job Number:	20046-0001
Received:	8/26/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/27/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 8/27/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount Spill I
Workorder: E408202
Date Received: 8/26/2024 7:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/26/2024 7:00:00AM, under the Project Name: West Mount Spill I.

The analytical test results summarized in this report with the Project Name: West Mount Spill I apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Mack Energy	Project Name:	West Mount Spill I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	08/27/24 14:33

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW Comp 1 - 22'	E408202-01A	Soil	08/22/24	08/26/24	Glass Jar, 2 oz.
SW Comp 2 - 22'	E408202-02A	Soil	08/22/24	08/26/24	Glass Jar, 2 oz.
SW Comp 3 - 22'	E408202-03A	Soil	08/22/24	08/26/24	Glass Jar, 2 oz.
SW Comp 4 - 22'	E408202-04A	Soil	08/22/24	08/26/24	Glass Jar, 2 oz.
SW Comp 5 - 22'	E408202-05A	Soil	08/22/24	08/26/24	Glass Jar, 2 oz.
SW Comp 6 - 22'	E408202-06A	Soil	08/22/24	08/26/24	Glass Jar, 2 oz.
SW Comp 7 - 22'	E408202-07A	Soil	08/22/24	08/26/24	Glass Jar, 2 oz.
SW Comp 8 - 22'	E408202-08A	Soil	08/22/24	08/26/24	Glass Jar, 2 oz.
SW Comp 9 - 22'	E408202-09A	Soil	08/22/24	08/26/24	Glass Jar, 2 oz.
SW Comp 10 - 22'	E408202-10A	Soil	08/22/24	08/26/24	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/27/2024 2:33:29PM

SW Comp 1 - 22'

E408202-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2435005
Benzene	ND	0.0250	1	08/26/24	08/26/24	
Ethylbenzene	ND	0.0250	1	08/26/24	08/26/24	
Toluene	ND	0.0250	1	08/26/24	08/26/24	
o-Xylene	ND	0.0250	1	08/26/24	08/26/24	
p,m-Xylene	ND	0.0500	1	08/26/24	08/26/24	
Total Xylenes	ND	0.0250	1	08/26/24	08/26/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.9 %*	*70-130*	*08/26/24*	*08/26/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2435005
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/26/24	08/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.8 %*	*70-130*	*08/26/24*	*08/26/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2435001
Diesel Range Organics (C10-C28)	ND	25.0	1	08/26/24	08/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/26/24	08/26/24	
Surrogate: n-Nonane		*76.4 %*	*50-200*	*08/26/24*	*08/26/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2435008
Chloride	**40.2**	20.0	1	08/26/24	08/26/24	

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/27/2024 2:33:29PM

SW Comp 2 - 22'

E408202-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2435005
Benzene	ND	0.0250	1	08/26/24	08/26/24	
Ethylbenzene	ND	0.0250	1	08/26/24	08/26/24	
Toluene	ND	0.0250	1	08/26/24	08/26/24	
o-Xylene	ND	0.0250	1	08/26/24	08/26/24	
p,m-Xylene	ND	0.0500	1	08/26/24	08/26/24	
Total Xylenes	ND	0.0250	1	08/26/24	08/26/24	
Surrogate: 4-Bromochlorobenzene-PID		*89.0 %*	*70-130*	*08/26/24*	*08/26/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2435005
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/26/24	08/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.8 %*	*70-130*	*08/26/24*	*08/26/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2435001
Diesel Range Organics (C10-C28)	ND	25.0	1	08/26/24	08/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/26/24	08/26/24	
Surrogate: n-Nonane		*77.1 %*	*50-200*	*08/26/24*	*08/26/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2435008
Chloride	**38.2**	20.0	1	08/26/24	08/26/24	

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/27/2024 2:33:29PM

SW Comp 3 - 22'

E408202-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2435005
Benzene	ND	0.0250	1	08/26/24	08/26/24	
Ethylbenzene	ND	0.0250	1	08/26/24	08/26/24	
Toluene	ND	0.0250	1	08/26/24	08/26/24	
o-Xylene	ND	0.0250	1	08/26/24	08/26/24	
p,m-Xylene	ND	0.0500	1	08/26/24	08/26/24	
Total Xylenes	ND	0.0250	1	08/26/24	08/26/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.3 %*	*70-130*	*08/26/24*	*08/26/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2435005
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/26/24	08/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.4 %*	*70-130*	*08/26/24*	*08/26/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2435001
Diesel Range Organics (C10-C28)	ND	25.0	1	08/26/24	08/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/26/24	08/26/24	
Surrogate: n-Nonane		*81.1 %*	*50-200*	*08/26/24*	*08/26/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2435008
Chloride	**42.4**	20.0	1	08/26/24	08/26/24	

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/27/2024 2:33:29PM

SW Comp 4 - 22'

E408202-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2435005
Benzene	ND	0.0250	1	08/26/24	08/26/24	
Ethylbenzene	ND	0.0250	1	08/26/24	08/26/24	
Toluene	ND	0.0250	1	08/26/24	08/26/24	
o-Xylene	ND	0.0250	1	08/26/24	08/26/24	
p,m-Xylene	ND	0.0500	1	08/26/24	08/26/24	
Total Xylenes	ND	0.0250	1	08/26/24	08/26/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.1 %*	*70-130*	*08/26/24*	*08/26/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2435005
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/26/24	08/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.1 %*	*70-130*	*08/26/24*	*08/26/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2435001
Diesel Range Organics (C10-C28)	ND	25.0	1	08/26/24	08/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/26/24	08/26/24	
Surrogate: n-Nonane		*78.7 %*	*50-200*	*08/26/24*	*08/26/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2435008
Chloride	**123**	20.0	1	08/26/24	08/26/24	

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/27/2024 2:33:29PM

SW Comp 5 - 22'

E408202-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2435005
Benzene	ND	0.0250	1	08/26/24	08/26/24	
Ethylbenzene	ND	0.0250	1	08/26/24	08/26/24	
Toluene	ND	0.0250	1	08/26/24	08/26/24	
o-Xylene	ND	0.0250	1	08/26/24	08/26/24	
p,m-Xylene	ND	0.0500	1	08/26/24	08/26/24	
Total Xylenes	ND	0.0250	1	08/26/24	08/26/24	
Surrogate: 4-Bromochlorobenzene-PID		*88.5 %*	*70-130*	*08/26/24*	*08/26/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2435005
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/26/24	08/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.1 %*	*70-130*	*08/26/24*	*08/26/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2435001
Diesel Range Organics (C10-C28)	ND	25.0	1	08/26/24	08/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/26/24	08/26/24	
Surrogate: n-Nonane		*76.4 %*	*50-200*	*08/26/24*	*08/26/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2435008
Chloride	**125**	20.0	1	08/26/24	08/26/24	

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/27/2024 2:33:29PM

SW Comp 6 - 22'

E408202-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2435005
Benzene	ND	0.0250	1	08/26/24	08/26/24	
Ethylbenzene	ND	0.0250	1	08/26/24	08/26/24	
Toluene	ND	0.0250	1	08/26/24	08/26/24	
o-Xylene	ND	0.0250	1	08/26/24	08/26/24	
p,m-Xylene	ND	0.0500	1	08/26/24	08/26/24	
Total Xylenes	ND	0.0250	1	08/26/24	08/26/24	
Surrogate: 4-Bromochlorobenzene-PID		*89.0 %*	*70-130*	*08/26/24*	*08/26/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2435005
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/26/24	08/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.2 %*	*70-130*	*08/26/24*	*08/26/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2435001
Diesel Range Organics (C10-C28)	ND	25.0	1	08/26/24	08/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/26/24	08/26/24	
Surrogate: n-Nonane		*81.0 %*	*50-200*	*08/26/24*	*08/26/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2435008
Chloride	**80.5**	20.0	1	08/26/24	08/26/24	

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/27/2024 2:33:29PM

SW Comp 7 - 22'

E408202-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2435005
Benzene	ND	0.0250	1	08/26/24	08/26/24	
Ethylbenzene	ND	0.0250	1	08/26/24	08/26/24	
Toluene	ND	0.0250	1	08/26/24	08/26/24	
o-Xylene	ND	0.0250	1	08/26/24	08/26/24	
p,m-Xylene	ND	0.0500	1	08/26/24	08/26/24	
Total Xylenes	ND	0.0250	1	08/26/24	08/26/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.2 %*	*70-130*	*08/26/24*	*08/26/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2435005
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/26/24	08/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.9 %*	*70-130*	*08/26/24*	*08/26/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2435001
Diesel Range Organics (C10-C28)	ND	25.0	1	08/26/24	08/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/26/24	08/26/24	
Surrogate: n-Nonane		*81.8 %*	*50-200*	*08/26/24*	*08/26/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2435008
Chloride	**39.8**	20.0	1	08/26/24	08/26/24	

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/27/2024 2:33:29PM

SW Comp 8 - 22'

E408202-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2435005
Benzene	ND	0.0250	1	08/26/24	08/26/24	
Ethylbenzene	ND	0.0250	1	08/26/24	08/26/24	
Toluene	ND	0.0250	1	08/26/24	08/26/24	
o-Xylene	ND	0.0250	1	08/26/24	08/26/24	
p,m-Xylene	ND	0.0500	1	08/26/24	08/26/24	
Total Xylenes	ND	0.0250	1	08/26/24	08/26/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.0 %*	*70-130*	*08/26/24*	*08/26/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2435005
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/26/24	08/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*98.6 %*	*70-130*	*08/26/24*	*08/26/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2435001
Diesel Range Organics (C10-C28)	ND	25.0	1	08/26/24	08/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/26/24	08/26/24	
Surrogate: n-Nonane		*81.4 %*	*50-200*	*08/26/24*	*08/26/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2435008
Chloride	**76.4**	20.0	1	08/26/24	08/26/24	

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/27/2024 2:33:29PM

SW Comp 9 - 22'

E408202-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2435005
Benzene	ND	0.0250	1	08/26/24	08/26/24	
Ethylbenzene	ND	0.0250	1	08/26/24	08/26/24	
Toluene	ND	0.0250	1	08/26/24	08/26/24	
o-Xylene	ND	0.0250	1	08/26/24	08/26/24	
p,m-Xylene	ND	0.0500	1	08/26/24	08/26/24	
Total Xylenes	ND	0.0250	1	08/26/24	08/26/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.4 %*	*70-130*	*08/26/24*	*08/26/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2435005
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/26/24	08/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*98.1 %*	*70-130*	*08/26/24*	*08/26/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2435001
Diesel Range Organics (C10-C28)	ND	25.0	1	08/26/24	08/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/26/24	08/26/24	
Surrogate: n-Nonane		*81.1 %*	*50-200*	*08/26/24*	*08/26/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2435008
Chloride	**41.7**	20.0	1	08/26/24	08/26/24	

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/27/2024 2:33:29PM

SW Comp 10 - 22'

E408202-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2435005
Benzene	ND	0.0250	1	08/26/24	08/26/24	
Ethylbenzene	ND	0.0250	1	08/26/24	08/26/24	
Toluene	ND	0.0250	1	08/26/24	08/26/24	
o-Xylene	ND	0.0250	1	08/26/24	08/26/24	
p,m-Xylene	ND	0.0500	1	08/26/24	08/26/24	
Total Xylenes	ND	0.0250	1	08/26/24	08/26/24	
Surrogate: 4-Bromochlorobenzene-PID		*89.0 %*	*70-130*	*08/26/24*	*08/26/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2435005
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/26/24	08/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.6 %*	*70-130*	*08/26/24*	*08/26/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2435001
Diesel Range Organics (C10-C28)	ND	25.0	1	08/26/24	08/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/26/24	08/26/24	
Surrogate: n-Nonane		*81.9 %*	*50-200*	*08/26/24*	*08/26/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2435008
Chloride	**79.4**	20.0	1	08/26/24	08/26/24	

QC Summary Data

Mack Energy	Project Name:	West Mount Spill I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/27/2024 2:33:29PM

Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2435005-BLK1)									Prepared: 08/26/24 Analyzed: 08/26/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.34*		*8.00*		*91.8*	*70-130*			
LCS (2435005-BS1)									Prepared: 08/26/24 Analyzed: 08/26/24
Benzene	3.61	0.0250	5.00		72.3	70-130			
Ethylbenzene	3.53	0.0250	5.00		70.7	70-130			
Toluene	3.59	0.0250	5.00		71.9	70-130			
o-Xylene	3.52	0.0250	5.00		70.5	70-130			
p,m-Xylene	7.21	0.0500	10.0		72.1	70-130			
Total Xylenes	10.7	0.0250	15.0		71.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.22*		*8.00*		*90.3*	*70-130*			
Matrix Spike (2435005-MS1)				**Source: E408202-04**					Prepared: 08/26/24 Analyzed: 08/26/24
Benzene	4.88	0.0250	5.00	ND	97.5	54-133			
Ethylbenzene	4.77	0.0250	5.00	ND	95.4	61-133			
Toluene	4.85	0.0250	5.00	ND	97.0	61-130			
o-Xylene	4.75	0.0250	5.00	ND	94.9	63-131			
p,m-Xylene	9.69	0.0500	10.0	ND	96.9	63-131			
Total Xylenes	14.4	0.0250	15.0	ND	96.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.22*		*8.00*		*90.2*	*70-130*			
Matrix Spike Dup (2435005-MSD1)				**Source: E408202-04**					Prepared: 08/26/24 Analyzed: 08/26/24
Benzene	4.24	0.0250	5.00	ND	84.7	54-133	14.0	20	
Ethylbenzene	4.17	0.0250	5.00	ND	83.5	61-133	13.3	20	
Toluene	4.23	0.0250	5.00	ND	84.6	61-130	13.7	20	
o-Xylene	4.14	0.0250	5.00	ND	82.8	63-131	13.7	20	
p,m-Xylene	8.49	0.0500	10.0	ND	84.9	63-131	13.3	20	
Total Xylenes	12.6	0.0250	15.0	ND	84.2	63-131	13.4	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.22*		*8.00*		*90.2*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount Spill I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/27/2024 2:33:29PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2435005-BLK1)									Prepared: 08/26/24 Analyzed: 08/26/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.01*		*8.00*		*100*	*70-130*			
LCS (2435005-BS2)									Prepared: 08/26/24 Analyzed: 08/26/24
Gasoline Range Organics (C6-C10)	41.0	20.0	50.0		82.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.93*		*8.00*		*99.1*	*70-130*			
Matrix Spike (2435005-MS2)				**Source: E408202-04**					Prepared: 08/26/24 Analyzed: 08/26/24
Gasoline Range Organics (C6-C10)	40.4	20.0	50.0	ND	80.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.78*		*8.00*		*97.3*	*70-130*			
Matrix Spike Dup (2435005-MSD2)				**Source: E408202-04**					Prepared: 08/26/24 Analyzed: 08/26/24
Gasoline Range Organics (C6-C10)	39.0	20.0	50.0	ND	78.0	70-130	3.62	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.85*		*8.00*		*98.1*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount Spill I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/27/2024 2:33:29PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2435001-BLK1)									Prepared: 08/26/24 Analyzed: 08/26/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*38.6*		*50.0*		*77.3*	*50-200*			
LCS (2435001-BS1)									Prepared: 08/26/24 Analyzed: 08/26/24
Diesel Range Organics (C10-C28)	180	25.0	250		71.8	38-132			
Surrogate: n-Nonane	*40.0*		*50.0*		*79.9*	*50-200*			
Matrix Spike (2435001-MS1)				**Source: E408202-08**					Prepared: 08/26/24 Analyzed: 08/26/24
Diesel Range Organics (C10-C28)	183	25.0	250	ND	73.1	38-132			
Surrogate: n-Nonane	*38.8*		*50.0*		*77.6*	*50-200*			
Matrix Spike Dup (2435001-MSD1)				**Source: E408202-08**					Prepared: 08/26/24 Analyzed: 08/26/24
Diesel Range Organics (C10-C28)	187	25.0	250	ND	74.7	38-132	2.21	20	
Surrogate: n-Nonane	*39.0*		*50.0*		*77.9*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount Spill I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/27/2024 2:33:29PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2435008-BLK1)									Prepared: 08/26/24 Analyzed: 08/26/24
Chloride	ND	20.0							
LCS (2435008-BS1)									Prepared: 08/26/24 Analyzed: 08/26/24
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2435008-MS1)				**Source: E408202-02**					Prepared: 08/26/24 Analyzed: 08/26/24
Chloride	297	20.0	250	38.2	103	80-120			
Matrix Spike Dup (2435008-MSD1)				**Source: E408202-02**					Prepared: 08/26/24 Analyzed: 08/26/24
Chloride	294	20.0	250	38.2	102	80-120	0.877	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	08/27/24 14:33

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information

Chain of Custody

Client: Mack Energy
Project: West Maint Spill I
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E408202
Job Number 20046-0001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 4500 | BGDOC NM X | BGDOC TX

Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Lab Number	Remarks
	08/22	S	1	SW Comp 1 - 22'	1	
				SW Comp 2 - 22'	2	
				SW Comp 3 - 22'	3	
				SW Comp 4 - 22'	4	
				SW Comp 5 - 22'	5	
				SW Comp 6 - 22'	6	
				SW Comp 7 - 22'	7	
				SW Comp 8 - 22'	8	
				SW Comp 9 - 22'	9	
	08/22	S	1	SW Comp 10 - 22'	10	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Juan Solis

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Juan Solis	08/22/24		Michelle Gonzales	8.23.24	1400
Michelle Gonzales	8.23.24	1640		8.23.24	1700
	8.23.24	2315	Kayla R Hall	8.24.24	0700

Lab Use Only
Received on ice: Y / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Envirotech Analytical Laboratory

Printed: 8/26/2024 7:52:28AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Mack Energy	Date Received:	08/23/24 07:00	Work Order ID:	E408202
Phone:	(575) 390-6397	Date Logged In:	08/23/24 15:54	Logged In By:	Noe Soto
Email:	Natalie@energystaffingllc.com	Due Date:	08/26/24 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Comments/Resolution

Project manager and time sampled are missing on COC by client.

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Natalie Gladden

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name:	West Mount Spill I
Work Order:	E408219
Job Number:	20046-0001
Received:	8/27/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/28/24

Date Reported: 8/28/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount Spill I
Workorder: E408219
Date Received: 8/27/2024 5:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/27/2024 5:00:00AM, under the Project Name: West Mount Spill I.

The analytical test results summarized in this report with the Project Name: West Mount Spill I apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
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Table of Contents

Sample Summary

Mack Energy	Project Name:	West Mount Spill I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	08/28/24 15:20

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW Comp 11 - 22'	E408219-01A	Soil	08/23/24	08/27/24	Glass Jar, 2 oz.
SW Comp 12 - 22'	E408219-02A	Soil	08/23/24	08/27/24	Glass Jar, 2 oz.
SW Comp 13 - 22'	E408219-03A	Soil	08/23/24	08/27/24	Glass Jar, 2 oz.
SW Comp 14 - 22'	E408219-04A	Soil	08/23/24	08/27/24	Glass Jar, 2 oz.
SW Comp 15 - 22'	E408219-05A	Soil	08/23/24	08/27/24	Glass Jar, 2 oz.
SW Comp 16 - 22'	E408219-06A	Soil	08/23/24	08/27/24	Glass Jar, 2 oz.
SW Comp 17 - 22'	E408219-07A	Soil	08/23/24	08/27/24	Glass Jar, 2 oz.
SW Comp 18 - 22'	E408219-08A	Soil	08/23/24	08/27/24	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/28/2024 3:20:46PM

SW Comp 11 - 22'

E408219-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2435027
Benzene	ND	0.0250	1	08/27/24	08/27/24	
Ethylbenzene	ND	0.0250	1	08/27/24	08/27/24	
Toluene	ND	0.0250	1	08/27/24	08/27/24	
o-Xylene	ND	0.0250	1	08/27/24	08/27/24	
p,m-Xylene	ND	0.0500	1	08/27/24	08/27/24	
Total Xylenes	ND	0.0250	1	08/27/24	08/27/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.2 %*	*70-130*	*08/27/24*	*08/27/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2435027
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/24	08/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.0 %*	*70-130*	*08/27/24*	*08/27/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2435025
Diesel Range Organics (C10-C28)	ND	25.0	1	08/27/24	08/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/27/24	08/27/24	
Surrogate: n-Nonane		*86.5 %*	*50-200*	*08/27/24*	*08/27/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2435026
Chloride	**104**	20.0	1	08/27/24	08/27/24	

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/28/2024 3:20:46PM

SW Comp 12 - 22'

E408219-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2435027
Benzene	ND	0.0250	1	08/27/24	08/27/24	
Ethylbenzene	ND	0.0250	1	08/27/24	08/27/24	
Toluene	ND	0.0250	1	08/27/24	08/27/24	
o-Xylene	ND	0.0250	1	08/27/24	08/27/24	
p,m-Xylene	ND	0.0500	1	08/27/24	08/27/24	
Total Xylenes	ND	0.0250	1	08/27/24	08/27/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.0 %*	*70-130*	*08/27/24*	*08/27/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2435027
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/24	08/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.8 %*	*70-130*	*08/27/24*	*08/27/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2435025
Diesel Range Organics (C10-C28)	ND	25.0	1	08/27/24	08/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/27/24	08/27/24	
Surrogate: n-Nonane		*86.5 %*	*50-200*	*08/27/24*	*08/27/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2435026
Chloride	**107**	20.0	1	08/27/24	08/27/24	

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/28/2024 3:20:46PM

SW Comp 13 - 22'

E408219-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2435027
Benzene	ND	0.0250	1	08/27/24	08/27/24	
Ethylbenzene	ND	0.0250	1	08/27/24	08/27/24	
Toluene	ND	0.0250	1	08/27/24	08/27/24	
o-Xylene	ND	0.0250	1	08/27/24	08/27/24	
p,m-Xylene	ND	0.0500	1	08/27/24	08/27/24	
Total Xylenes	ND	0.0250	1	08/27/24	08/27/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.8 %*	*70-130*	*08/27/24*	*08/27/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2435027
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/24	08/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.5 %*	*70-130*	*08/27/24*	*08/27/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2435025
Diesel Range Organics (C10-C28)	ND	25.0	1	08/27/24	08/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/27/24	08/27/24	
Surrogate: n-Nonane		*88.4 %*	*50-200*	*08/27/24*	*08/27/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2435026
Chloride	**58.8**	20.0	1	08/27/24	08/27/24	

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/28/2024 3:20:46PM

SW Comp 14 - 22'

E408219-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2435027
Benzene	ND	0.0250	1	08/27/24	08/27/24	
Ethylbenzene	ND	0.0250	1	08/27/24	08/27/24	
Toluene	ND	0.0250	1	08/27/24	08/27/24	
o-Xylene	ND	0.0250	1	08/27/24	08/27/24	
p,m-Xylene	ND	0.0500	1	08/27/24	08/27/24	
Total Xylenes	ND	0.0250	1	08/27/24	08/27/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.7 %*	*70-130*	*08/27/24*	*08/27/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2435027
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/24	08/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.1 %*	*70-130*	*08/27/24*	*08/27/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2435025
Diesel Range Organics (C10-C28)	ND	25.0	1	08/27/24	08/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/27/24	08/27/24	
Surrogate: n-Nonane		*87.1 %*	*50-200*	*08/27/24*	*08/27/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2435026
Chloride	**118**	20.0	1	08/27/24	08/27/24	

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/28/2024 3:20:46PM

SW Comp 15 - 22'

E408219-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2435027
Benzene	ND	0.0250	1	08/27/24	08/27/24	
Ethylbenzene	ND	0.0250	1	08/27/24	08/27/24	
Toluene	ND	0.0250	1	08/27/24	08/27/24	
o-Xylene	ND	0.0250	1	08/27/24	08/27/24	
p,m-Xylene	ND	0.0500	1	08/27/24	08/27/24	
Total Xylenes	ND	0.0250	1	08/27/24	08/27/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.9 %*	*70-130*	*08/27/24*	*08/27/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2435027
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/24	08/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.1 %*	*70-130*	*08/27/24*	*08/27/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2435025
Diesel Range Organics (C10-C28)	ND	25.0	1	08/27/24	08/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/27/24	08/27/24	
Surrogate: n-Nonane		*86.4 %*	*50-200*	*08/27/24*	*08/27/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2435026
Chloride	**91.2**	20.0	1	08/27/24	08/27/24	

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/28/2024 3:20:46PM

SW Comp 16 - 22'

E408219-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2435027
Benzene	ND	0.0250	1	08/27/24	08/27/24	
Ethylbenzene	ND	0.0250	1	08/27/24	08/27/24	
Toluene	ND	0.0250	1	08/27/24	08/27/24	
o-Xylene	ND	0.0250	1	08/27/24	08/27/24	
p,m-Xylene	ND	0.0500	1	08/27/24	08/27/24	
Total Xylenes	ND	0.0250	1	08/27/24	08/27/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.2 %*	*70-130*	*08/27/24*	*08/27/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2435027
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/24	08/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.9 %*	*70-130*	*08/27/24*	*08/27/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2435025
Diesel Range Organics (C10-C28)	ND	25.0	1	08/27/24	08/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/27/24	08/27/24	
Surrogate: n-Nonane		*88.5 %*	*50-200*	*08/27/24*	*08/27/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2435026
Chloride	**96.4**	20.0	1	08/27/24	08/27/24	

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/28/2024 3:20:46PM

SW Comp 17 - 22'

E408219-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2435027
Benzene	ND	0.0250	1	08/27/24	08/27/24	
Ethylbenzene	ND	0.0250	1	08/27/24	08/27/24	
Toluene	ND	0.0250	1	08/27/24	08/27/24	
o-Xylene	ND	0.0250	1	08/27/24	08/27/24	
p,m-Xylene	ND	0.0500	1	08/27/24	08/27/24	
Total Xylenes	ND	0.0250	1	08/27/24	08/27/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.5 %*	*70-130*	*08/27/24*	*08/27/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2435027
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/24	08/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.0 %*	*70-130*	*08/27/24*	*08/27/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2435025
Diesel Range Organics (C10-C28)	ND	25.0	1	08/27/24	08/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/27/24	08/27/24	
Surrogate: n-Nonane		*87.6 %*	*50-200*	*08/27/24*	*08/27/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2435026
Chloride	**109**	20.0	1	08/27/24	08/27/24	

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/28/2024 3:20:46PM

SW Comp 18 - 22'

E408219-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2435027
Benzene	ND	0.0250	1	08/27/24	08/27/24	
Ethylbenzene	ND	0.0250	1	08/27/24	08/27/24	
Toluene	ND	0.0250	1	08/27/24	08/27/24	
o-Xylene	ND	0.0250	1	08/27/24	08/27/24	
p,m-Xylene	ND	0.0500	1	08/27/24	08/27/24	
Total Xylenes	ND	0.0250	1	08/27/24	08/27/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.7 %*	*70-130*	*08/27/24*	*08/27/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2435027
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/24	08/27/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.5 %*	*70-130*	*08/27/24*	*08/27/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2435025
Diesel Range Organics (C10-C28)	ND	25.0	1	08/27/24	08/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/27/24	08/27/24	
Surrogate: n-Nonane		*84.6 %*	*50-200*	*08/27/24*	*08/27/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2435026
Chloride	**64.5**	20.0	1	08/27/24	08/27/24	

QC Summary Data

Mack Energy	Project Name:	West Mount Spill I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/28/2024 3:20:46PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2435027-BLK1)									Prepared: 08/27/24 Analyzed: 08/27/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.17*		*8.00*		*89.6*	*70-130*			
LCS (2435027-BS1)									Prepared: 08/27/24 Analyzed: 08/27/24
Benzene	4.88	0.0250	5.00		97.5	70-130			
Ethylbenzene	4.96	0.0250	5.00		99.1	70-130			
Toluene	4.98	0.0250	5.00		99.5	70-130			
o-Xylene	4.95	0.0250	5.00		98.9	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.15*		*8.00*		*89.4*	*70-130*			
Matrix Spike (2435027-MS1)				**Source: E408219-01**					Prepared: 08/27/24 Analyzed: 08/27/24
Benzene	4.84	0.0250	5.00	ND	96.9	54-133			
Ethylbenzene	4.91	0.0250	5.00	ND	98.2	61-133			
Toluene	4.94	0.0250	5.00	ND	98.7	61-130			
o-Xylene	4.90	0.0250	5.00	ND	98.0	63-131			
p,m-Xylene	9.97	0.0500	10.0	ND	99.7	63-131			
Total Xylenes	14.9	0.0250	15.0	ND	99.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.24*		*8.00*		*90.5*	*70-130*			
Matrix Spike Dup (2435027-MSD1)				**Source: E408219-01**					Prepared: 08/27/24 Analyzed: 08/27/24
Benzene	4.85	0.0250	5.00	ND	96.9	54-133	0.0351	20	
Ethylbenzene	4.94	0.0250	5.00	ND	98.8	61-133	0.572	20	
Toluene	4.96	0.0250	5.00	ND	99.2	61-130	0.449	20	
o-Xylene	4.92	0.0250	5.00	ND	98.5	63-131	0.507	20	
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	0.517	20	
Total Xylenes	15.0	0.0250	15.0	ND	99.7	63-131	0.514	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.27*		*8.00*		*90.8*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount Spill I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/28/2024 3:20:46PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2435027-BLK1)									Prepared: 08/27/24 Analyzed: 08/27/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.66*		*8.00*		*95.7*	*70-130*			
LCS (2435027-BS2)									Prepared: 08/27/24 Analyzed: 08/27/24
Gasoline Range Organics (C6-C10)	45.7	20.0	50.0		91.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.66*		*8.00*		*95.7*	*70-130*			
Matrix Spike (2435027-MS2)				**Source: E408219-01**					Prepared: 08/27/24 Analyzed: 08/27/24
Gasoline Range Organics (C6-C10)	45.0	20.0	50.0	ND	90.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.62*		*8.00*		*95.3*	*70-130*			
Matrix Spike Dup (2435027-MSD2)				**Source: E408219-01**					Prepared: 08/27/24 Analyzed: 08/27/24
Gasoline Range Organics (C6-C10)	44.8	20.0	50.0	ND	89.6	70-130	0.429	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.52*		*8.00*		*94.0*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount Spill I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/28/2024 3:20:46PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2435025-BLK1)									Prepared: 08/27/24 Analyzed: 08/27/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*42.6*		*50.0*		*85.2*	*50-200*			
LCS (2435025-BS1)									Prepared: 08/27/24 Analyzed: 08/27/24
Diesel Range Organics (C10-C28)	191	25.0	250		76.6	38-132			
Surrogate: n-Nonane	*43.6*		*50.0*		*87.1*	*50-200*			
LCS Dup (2435025-BSD1)									Prepared: 08/27/24 Analyzed: 08/27/24
Diesel Range Organics (C10-C28)	194	25.0	250		77.7	38-132	1.40	20	
Surrogate: n-Nonane	*42.2*		*50.0*		*84.4*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount Spill I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/28/2024 3:20:46PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2435026-BLK1)									Prepared: 08/27/24 Analyzed: 08/27/24
Chloride	ND	20.0							
LCS (2435026-BS1)									Prepared: 08/27/24 Analyzed: 08/27/24
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2435026-MS1)				**Source: E408220-02**					Prepared: 08/27/24 Analyzed: 08/27/24
Chloride	309	20.0	250	59.9	99.5	80-120			
Matrix Spike Dup (2435026-MSD1)				**Source: E408220-02**					Prepared: 08/27/24 Analyzed: 08/27/24
Chloride	314	20.0	250	59.9	102	80-120	1.73	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	08/28/24 15:20

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information

Chain of Custody

Client: Macu Energy
Project: West mant 58.11 I
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E408219
Job Number 20046-0001

TAT: 1D | 2D x | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM x | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/ORO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6020 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	08/23	S	1	SW Comp 11 - 22'	1	x	
				SW Comp 12 - 22'	2		
				SW Comp 13 - 22'	3		
				SW Comp 14 - 22'	4		
				SW Comp 15 - 22'	5		
				SW Comp 16 - 22'	6		
				SW Comp 17 - 22'	7		
	08/23	S	1	SW Comp 18 - 22'	8	x	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Juan Solis

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Juan Solis	08/23/24		Michelle Gonzales	8.26.24	1445
Michelle Gonzales	8.26.24	1735		8.26.24	1745
A.M.	8.26.24	2345	Kayleigh R Hobbs	8.27.24	0500

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Envirotech Analytical Laboratory

Printed: 8/27/2024 9:48:30AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Mack Energy	Date Received:	08/27/24 06:00	Work Order ID:	E408219
Phone:	(575) 390-6397	Date Logged In:	08/26/24 16:12	Logged In By:	Noe Soto
Email:	Natalie@energystaffingllc.com	Due Date:	08/28/24 17:00 (1 day TAT)		

Chain of Custody (COC)		
1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	
Sample Turn Around Time (TAT)		
6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	
Sample Cooler		
7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		
Sample Container		
14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	
Field Label		
20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	
Sample Preservation		
21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	
Multiphase Sample Matrix		
26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	
Subcontract Laboratory		
28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Comments/Resolution

Project manager and time sampled are missing on COC by client.

Client Instruction

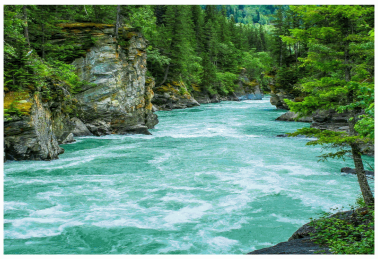
Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Natalie Gladden



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name:	West Mount Spill I
Work Order:	E507264
Job Number:	20046-0001
Received:	7/23/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/24/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/24/25

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount Spill I
Workorder: E507264
Date Received: 7/23/2025 7:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/23/2025 7:30:00AM, under the Project Name: West Mount Spill I.

The analytical test results summarized in this report with the Project Name: West Mount Spill I apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Table of Contents

Sample Summary

Mack Energy	Project Name:	West Mount Spill I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/24/25 10:09

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BACKFILL COMP 1- SURF	E507264-01A	Soil	07/21/25	07/23/25	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/24/2025 10:09:23AM

BACKFILL COMP 1- SURF

E507264-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2530065
Benzene	ND	0.0250	1	07/23/25	07/23/25	
Ethylbenzene	ND	0.0250	1	07/23/25	07/23/25	
Toluene	ND	0.0250	1	07/23/25	07/23/25	
o-Xylene	ND	0.0250	1	07/23/25	07/23/25	
p,m-Xylene	ND	0.0500	1	07/23/25	07/23/25	
Total Xylenes	ND	0.0250	1	07/23/25	07/23/25	
Surrogate: 4-Bromochlorobenzene-PID		*87.6 %*	*70-130*	*07/23/25*	*07/23/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2530065
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/25	07/23/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*83.1 %*	*70-130*	*07/23/25*	*07/23/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2530088
Diesel Range Organics (C10-C28)	ND	25.0	1	07/23/25	07/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/23/25	07/23/25	
Surrogate: n-Nonane		*77.7 %*	*61-141*	*07/23/25*	*07/23/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2530066
Chloride	ND	20.0	1	07/23/25	07/23/25	

QC Summary Data

Mack Energy	Project Name:	West Mount Spill I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/24/2025 10:09:23AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2530065-BLK1)									Prepared: 07/23/25 Analyzed: 07/23/25
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*6.87*		*8.00*		*85.8*	*70-130*			
LCS (2530065-BS1)									Prepared: 07/23/25 Analyzed: 07/23/25
Benzene	5.26	0.0250	5.00		105	70-130			
Ethylbenzene	5.15	0.0250	5.00		103	70-130			
Toluene	5.22	0.0250	5.00		104	70-130			
o-Xylene	5.10	0.0250	5.00		102	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*6.84*		*8.00*		*85.5*	*70-130*			
Matrix Spike (2530065-MS1)				**Source: E507275-03**					Prepared: 07/23/25 Analyzed: 07/23/25
Benzene	4.71	0.0250	5.00	ND	94.3	70-130			
Ethylbenzene	4.60	0.0250	5.00	ND	92.1	70-130			
Toluene	4.71	0.0250	5.00	0.0367	93.5	70-130			
o-Xylene	4.63	0.0250	5.00	0.0794	91.0	70-130			
p,m-Xylene	9.58	0.0500	10.0	0.267	93.1	70-130			
Total Xylenes	14.2	0.0250	15.0	0.346	92.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*6.84*		*8.00*		*85.5*	*70-130*			
Matrix Spike Dup (2530065-MSD1)				**Source: E507275-03**					Prepared: 07/23/25 Analyzed: 07/23/25
Benzene	5.39	0.0250	5.00	ND	108	70-130	13.4	27	
Ethylbenzene	5.28	0.0250	5.00	ND	106	70-130	13.6	26	
Toluene	5.39	0.0250	5.00	0.0367	107	70-130	13.4	20	
o-Xylene	5.31	0.0250	5.00	0.0794	105	70-130	13.7	25	
p,m-Xylene	10.9	0.0500	10.0	0.267	107	70-130	13.3	23	
Total Xylenes	16.2	0.0250	15.0	0.346	106	70-130	13.4	26	
Surrogate: 4-Bromochlorobenzene-PID	*6.79*		*8.00*		*84.9*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount Spill I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/24/2025 10:09:23AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2530065-BLK1)									Prepared: 07/23/25 Analyzed: 07/23/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.64*		*8.00*		*83.0*	*70-130*			
LCS (2530065-BS2)									Prepared: 07/23/25 Analyzed: 07/23/25
Gasoline Range Organics (C6-C10)	37.3	20.0	50.0		74.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.75*		*8.00*		*84.4*	*70-130*			
Matrix Spike (2530065-MS2)				**Source: E507275-03**					Prepared: 07/23/25 Analyzed: 07/23/25
Gasoline Range Organics (C6-C10)	49.7	20.0	50.0	ND	99.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.05*		*8.00*		*88.2*	*70-130*			
Matrix Spike Dup (2530065-MSD2)				**Source: E507275-03**					Prepared: 07/23/25 Analyzed: 07/23/25
Gasoline Range Organics (C6-C10)	44.5	20.0	50.0	ND	88.9	70-130	11.2	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.97*		*8.00*		*87.1*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount Spill I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/24/2025 10:09:23AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2530088-BLK1)									Prepared: 07/23/25 Analyzed: 07/23/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*39.3*		*50.0*		*78.6*	*61-141*			
LCS (2530088-BS1)									Prepared: 07/23/25 Analyzed: 07/23/25
Diesel Range Organics (C10-C28)	228	25.0	250		91.1	66-144			
Surrogate: n-Nonane	*40.2*		*50.0*		*80.3*	*61-141*			
Matrix Spike (2530088-MS1)				**Source: E507275-03**					Prepared: 07/23/25 Analyzed: 07/23/25
Diesel Range Organics (C10-C28)	236	25.0	250	ND	94.3	56-156			
Surrogate: n-Nonane	*40.2*		*50.0*		*80.4*	*61-141*			
Matrix Spike Dup (2530088-MSD1)				**Source: E507275-03**					Prepared: 07/23/25 Analyzed: 07/23/25
Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.0	56-156	3.56	20	
Surrogate: n-Nonane	*40.5*		*50.0*		*81.1*	*61-141*			

QC Summary Data

Mack Energy	Project Name:	West Mount Spill I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/24/2025 10:09:23AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2530066-BLK1)									Prepared: 07/23/25 Analyzed: 07/23/25
Chloride	ND	20.0							
LCS (2530066-BS1)									Prepared: 07/23/25 Analyzed: 07/23/25
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2530066-MS1)				**Source: E507264-01**					Prepared: 07/23/25 Analyzed: 07/23/25
Chloride	252	20.0	250	ND	101	80-120			
Matrix Spike Dup (2530066-MSD1)				**Source: E507264-01**					Prepared: 07/23/25 Analyzed: 07/23/25
Chloride	253	20.0	250	ND	101	80-120	0.252	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Mack Energy	Project Name:	West Mount Spill I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/24/25 10:09

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information | Chain of Custody | Page 1 of 1

Client:	MACK ENERGY
Project:	WEST MOUNT SWD "I"
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

Attention:	ENERGY STAFFING SERVICES
Address:	2724 NW COUNTY RD
City, State, Zip	HOBBS, NM 88240
Phone:	575-393-9048
Email:	NATALIE@ENERGYSTAFFINGLLC.COM

Lab Use Only

Lab WO# E507264 | Job Number 20046-0001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM	BGDOC TX			Remarks
	7/21/25	S	1	BACKFILL COMP1-5YDS	1									X				2.4

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. RIVERA

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	7/21/25		Michelle Gonzales	7.22.25	1300
Michelle Gonzales	7.22.25	1445	Marissa Gonzales	7.22.25	1445
Marissa Gonzales	7.22.25	1825	Andrew M.	7.22.25	1825

Lab Use Only — Received on ice: (Y) / N

T1 _____ T2 _____ T3 _____

AVG Temp °C _____

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Andrew M.	7.22.25	2230	Caitlin Mar	7.23.25	730

envirotech

Envirotech Analytical Laboratory

Printed: 7/23/2025 8:24:03AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Mack Energy	Date Received:	07/23/25 07:30	Work Order ID:	E507264
Phone:	(575) 390-6397	Date Logged In:	07/22/25 14:05	Logged In By:	Caitlin Mars
Email:	Natalie@energystaffingllc.com	Due Date:	07/24/25 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling	Yes	
13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filtration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Comments/Resolution

Project manager and time sampled not provided on COC.

Client Instruction

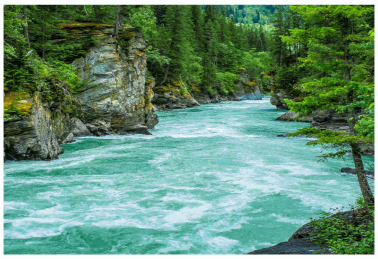
Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Natalie Gladden



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name:	West Mount I
Work Order:	E508048
Job Number:	20046-0001
Received:	8/6/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/7/25

Date Reported: 8/7/25

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount I
Workorder: E508048
Date Received: 8/6/2025 6:30:54AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/6/2025 6:30:54AM, under the Project Name: West Mount I.

The analytical test results summarized in this report with the Project Name: West Mount I apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Field Offices:

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Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
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ljarboe@envirotech-inc.com

Michelle Gonzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Mack Energy	Project Name:	West Mount I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	08/07/25 14:15

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BACKFILL COMP1- SURF	E508048-01A	Soil	08/04/25	08/06/25	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/7/2025 2:15:35PM

BACKFILL COMP1- SURF

E508048-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2532063
Benzene	ND	0.0250	1	08/06/25	08/06/25	
Ethylbenzene	ND	0.0250	1	08/06/25	08/06/25	
Toluene	ND	0.0250	1	08/06/25	08/06/25	
o-Xylene	ND	0.0250	1	08/06/25	08/06/25	
p,m-Xylene	ND	0.0500	1	08/06/25	08/06/25	
Total Xylenes	ND	0.0250	1	08/06/25	08/06/25	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*	*70-130*	*08/06/25*	*08/06/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2532063
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/25	08/06/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*101 %*	*70-130*	*08/06/25*	*08/06/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2532061
Diesel Range Organics (C10-C28)	ND	25.0	1	08/05/25	08/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	08/05/25	08/06/25	
Surrogate: n-Nonane		*116 %*	*61-141*	*08/05/25*	*08/06/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2532069
Chloride	ND	20.0	1	08/06/25	08/06/25	

QC Summary Data

Mack Energy	Project Name:	West Mount I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/7/2025 2:15:35PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2532063-BLK1)									Prepared: 08/06/25 Analyzed: 08/06/25
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.71*		*8.00*		*96.4*	*70-130*			
LCS (2532063-BS1)									Prepared: 08/06/25 Analyzed: 08/06/25
Benzene	4.87	0.0250	5.00		97.4	70-130			
Ethylbenzene	4.81	0.0250	5.00		96.1	70-130			
Toluene	4.85	0.0250	5.00		96.9	70-130			
o-Xylene	4.84	0.0250	5.00		96.8	70-130			
p,m-Xylene	9.79	0.0500	10.0		97.9	70-130			
Total Xylenes	14.6	0.0250	15.0		97.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.33*		*8.00*		*91.7*	*70-130*			
Matrix Spike (2532063-MS1)				**Source: E508045-03**					Prepared: 08/06/25 Analyzed: 08/06/25
Benzene	3.99	0.0250	5.00	ND	79.8	70-130			
Ethylbenzene	3.89	0.0250	5.00	ND	77.9	70-130			
Toluene	3.96	0.0250	5.00	ND	79.1	70-130			
o-Xylene	4.06	0.0250	5.00	ND	81.2	70-130			
p,m-Xylene	7.99	0.0500	10.0	ND	79.9	70-130			
Total Xylenes	12.1	0.0250	15.0	ND	80.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.82*		*8.00*		*97.8*	*70-130*			
Matrix Spike Dup (2532063-MSD1)				**Source: E508045-03**					Prepared: 08/06/25 Analyzed: 08/06/25
Benzene	4.55	0.0250	5.00	ND	91.1	70-130	13.2	27	
Ethylbenzene	4.49	0.0250	5.00	ND	89.8	70-130	14.2	26	
Toluene	4.53	0.0250	5.00	ND	90.5	70-130	13.4	20	
o-Xylene	4.55	0.0250	5.00	ND	90.9	70-130	11.3	25	
p,m-Xylene	9.16	0.0500	10.0	ND	91.6	70-130	13.5	23	
Total Xylenes	13.7	0.0250	15.0	ND	91.3	70-130	12.8	26	
Surrogate: 4-Bromochlorobenzene-PID	*7.78*		*8.00*		*97.3*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/7/2025 2:15:35PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2532063-BLK1)									Prepared: 08/06/25 Analyzed: 08/06/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.15*		*8.00*		*102*	*70-130*			
LCS (2532063-BS2)									Prepared: 08/06/25 Analyzed: 08/06/25
Gasoline Range Organics (C6-C10)	46.0	20.0	50.0		92.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.13*		*8.00*		*102*	*70-130*			
Matrix Spike (2532063-MS2)				**Source: E508045-03**					Prepared: 08/06/25 Analyzed: 08/06/25
Gasoline Range Organics (C6-C10)	49.1	20.0	50.0	ND	98.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.35*		*8.00*		*104*	*70-130*			
Matrix Spike Dup (2532063-MSD2)				**Source: E508045-03**					Prepared: 08/06/25 Analyzed: 08/06/25
Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130	4.81	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.31*		*8.00*		*104*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/7/2025 2:15:35PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2532061-BLK1)									Prepared: 08/05/25 Analyzed: 08/06/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*49.4*		*50.0*		*98.9*	*61-141*			
LCS (2532061-BS1)									Prepared: 08/05/25 Analyzed: 08/06/25
Diesel Range Organics (C10-C28)	279	25.0	250		112	66-144			
Surrogate: n-Nonane	*50.3*		*50.0*		*101*	*61-141*			
Matrix Spike (2532061-MS1)				**Source: E508045-03**					Prepared: 08/05/25 Analyzed: 08/06/25
Diesel Range Organics (C10-C28)	272	25.0	250	ND	109	56-156			
Surrogate: n-Nonane	*49.6*		*50.0*		*99.2*	*61-141*			
Matrix Spike Dup (2532061-MSD1)				**Source: E508045-03**					Prepared: 08/05/25 Analyzed: 08/06/25
Diesel Range Organics (C10-C28)	271	25.0	250	ND	108	56-156	0.550	20	
Surrogate: n-Nonane	*50.9*		*50.0*		*102*	*61-141*			

QC Summary Data

Mack Energy	Project Name:	West Mount I	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/7/2025 2:15:35PM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2532069-BLK1)									Prepared: 08/06/25 Analyzed: 08/06/25
Chloride	ND	20.0							
LCS (2532069-BS1)									Prepared: 08/06/25 Analyzed: 08/06/25
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2532069-MS1)				**Source: E508045-05**					Prepared: 08/06/25 Analyzed: 08/06/25
Chloride	298	20.0	250	42.9	102	80-120			
Matrix Spike Dup (2532069-MSD1)				**Source: E508045-05**					Prepared: 08/06/25 Analyzed: 08/06/25
Chloride	300	20.0	250	42.9	103	80-120	0.648	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Mack Energy	Project Name:	West Mount I	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	08/07/25 14:15

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information | Chain of Custody | Page 1 of 1

Client:	MACK ENERGY
Project:	WEST MOUNT 1
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

Attention:	ENERGY STAFFING SERVICES
Address:	2724 NW COUNTY RD
City, State, Zip	HOBBS, NM 88240
Phone:	575-393-9048
Email:	NATALIE@ENERGYSTAFFINGLLC.COM

Lab Use Only

Lab WO#: E508048 | Job Number: 20046-0001

TAT

1D	2D	3D	Standard
	X		

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX
X				

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
1115	8/4/25	S	1	BACKFILL COMP1 - 5 YDF	1							X		3.6

Analysis and Method

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. RIVERA

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	8/4/25	1300	Michelle Gonzales	8.5.25	1300
Michelle Gonzales	8.5.25	1500	Marissa Gonzales	8-5-25	1500
Marissa Gonzales	8-5-25	1915	Andrew Musso	8.5.25	1915

Lab Use Only

Received on ice: (Y) / N

T1 _____ T2 _____ T3 _____

AVG Temp °C _____

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Andrew Musso	8.5.25	2330	Caitlin Mars	8.6.25	0630

envirotech

Envirotech Analytical Laboratory

Printed: 8/6/2025 8:40:19AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Mack Energy	Date Received:	08/06/25 06:30	Work Order ID:	E508048
Phone:	(575) 390-6397	Date Logged In:	08/05/25 15:15	Logged In By:	Caitlin Mars
Email:	Natalie@energystaffingllc.com	Due Date:	08/07/25 07:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling	Yes	
13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filtration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Comments/Resolution

Project manager not provided on COC.

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Natalie Gladden

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount 1 B 1

Work Order: E508049

Job Number: 20046-0001

Received: 8/6/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/7/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 8/7/25

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount 1 B 1
Workorder: E508049
Date Received: 8/6/2025 6:30:54AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/6/2025 6:30:54AM, under the Project Name: West Mount 1 B 1.

The analytical test results summarized in this report with the Project Name: West Mount 1 B 1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Table of Contents

Sample Summary

Mack Energy	Project Name:	West Mount 1 B 1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	08/07/25 14:16

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BACKFILL COMP1- SURF	E508049-01A	Soil	08/04/25	08/06/25	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount 1 B 1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/7/2025 2:16:35PM

BACKFILL COMP1- SURF

E508049-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2532063
Benzene	ND	0.0250	1	08/06/25	08/06/25	
Ethylbenzene	ND	0.0250	1	08/06/25	08/06/25	
Toluene	ND	0.0250	1	08/06/25	08/06/25	
o-Xylene	ND	0.0250	1	08/06/25	08/06/25	
p,m-Xylene	ND	0.0500	1	08/06/25	08/06/25	
Total Xylenes	ND	0.0250	1	08/06/25	08/06/25	
Surrogate: 4-Bromochlorobenzene-PID		*97.5 %*	*70-130*	*08/06/25*	*08/06/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2532063
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/06/25	08/06/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*100 %*	*70-130*	*08/06/25*	*08/06/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2532061
Diesel Range Organics (C10-C28)	ND	25.0	1	08/05/25	08/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	08/05/25	08/06/25	
Surrogate: n-Nonane		*114 %*	*61-141*	*08/05/25*	*08/06/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2532069
Chloride	ND	20.0	1	08/06/25	08/06/25	

QC Summary Data

Mack Energy	Project Name:	West Mount 1 B 1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/7/2025 2:16:35PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2532063-BLK1)									Prepared: 08/06/25 Analyzed: 08/06/25
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.71*		*8.00*		*96.4*	*70-130*			
LCS (2532063-BS1)									Prepared: 08/06/25 Analyzed: 08/06/25
Benzene	4.87	0.0250	5.00		97.4	70-130			
Ethylbenzene	4.81	0.0250	5.00		96.1	70-130			
Toluene	4.85	0.0250	5.00		96.9	70-130			
o-Xylene	4.84	0.0250	5.00		96.8	70-130			
p,m-Xylene	9.79	0.0500	10.0		97.9	70-130			
Total Xylenes	14.6	0.0250	15.0		97.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.33*		*8.00*		*91.7*	*70-130*			
Matrix Spike (2532063-MS1)				**Source: E508045-03**					Prepared: 08/06/25 Analyzed: 08/06/25
Benzene	3.99	0.0250	5.00	ND	79.8	70-130			
Ethylbenzene	3.89	0.0250	5.00	ND	77.9	70-130			
Toluene	3.96	0.0250	5.00	ND	79.1	70-130			
o-Xylene	4.06	0.0250	5.00	ND	81.2	70-130			
p,m-Xylene	7.99	0.0500	10.0	ND	79.9	70-130			
Total Xylenes	12.1	0.0250	15.0	ND	80.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.82*		*8.00*		*97.8*	*70-130*			
Matrix Spike Dup (2532063-MSD1)				**Source: E508045-03**					Prepared: 08/06/25 Analyzed: 08/06/25
Benzene	4.55	0.0250	5.00	ND	91.1	70-130	13.2	27	
Ethylbenzene	4.49	0.0250	5.00	ND	89.8	70-130	14.2	26	
Toluene	4.53	0.0250	5.00	ND	90.5	70-130	13.4	20	
o-Xylene	4.55	0.0250	5.00	ND	90.9	70-130	11.3	25	
p,m-Xylene	9.16	0.0500	10.0	ND	91.6	70-130	13.5	23	
Total Xylenes	13.7	0.0250	15.0	ND	91.3	70-130	12.8	26	
Surrogate: 4-Bromochlorobenzene-PID	*7.78*		*8.00*		*97.3*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount 1 B 1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/7/2025 2:16:35PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2532063-BLK1)									Prepared: 08/06/25 Analyzed: 08/06/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.15*		*8.00*		*102*	*70-130*			
LCS (2532063-BS2)									Prepared: 08/06/25 Analyzed: 08/06/25
Gasoline Range Organics (C6-C10)	46.0	20.0	50.0		92.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.13*		*8.00*		*102*	*70-130*			
Matrix Spike (2532063-MS2)				**Source: E508045-03**					Prepared: 08/06/25 Analyzed: 08/06/25
Gasoline Range Organics (C6-C10)	49.1	20.0	50.0	ND	98.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.35*		*8.00*		*104*	*70-130*			
Matrix Spike Dup (2532063-MSD2)				**Source: E508045-03**					Prepared: 08/06/25 Analyzed: 08/06/25
Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130	4.81	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.31*		*8.00*		*104*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount 1 B 1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/7/2025 2:16:35PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2532061-BLK1)									Prepared: 08/05/25 Analyzed: 08/06/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*49.4*		*50.0*		*98.9*	*61-141*			
LCS (2532061-BS1)									Prepared: 08/05/25 Analyzed: 08/06/25
Diesel Range Organics (C10-C28)	279	25.0	250		112	66-144			
Surrogate: n-Nonane	*50.3*		*50.0*		*101*	*61-141*			
Matrix Spike (2532061-MS1)				**Source: E508045-03**					Prepared: 08/05/25 Analyzed: 08/06/25
Diesel Range Organics (C10-C28)	272	25.0	250	ND	109	56-156			
Surrogate: n-Nonane	*49.6*		*50.0*		*99.2*	*61-141*			
Matrix Spike Dup (2532061-MSD1)				**Source: E508045-03**					Prepared: 08/05/25 Analyzed: 08/06/25
Diesel Range Organics (C10-C28)	271	25.0	250	ND	108	56-156	0.550	20	
Surrogate: n-Nonane	*50.9*		*50.0*		*102*	*61-141*			

QC Summary Data

Mack Energy	Project Name:	West Mount 1 B 1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/7/2025 2:16:35PM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2532069-BLK1)									Prepared: 08/06/25 Analyzed: 08/06/25
Chloride	ND	20.0							
LCS (2532069-BS1)									Prepared: 08/06/25 Analyzed: 08/06/25
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2532069-MS1)				**Source: E508045-05**					Prepared: 08/06/25 Analyzed: 08/06/25
Chloride	298	20.0	250	42.9	102	80-120			
Matrix Spike Dup (2532069-MSD1)				**Source: E508045-05**					Prepared: 08/06/25 Analyzed: 08/06/25
Chloride	300	20.0	250	42.9	103	80-120	0.648	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Mack Energy	Project Name:	West Mount 1 B 1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	08/07/25 14:16

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information | Chain of Custody | Page 1 of 1

Client:	MACK ENERGY
Project:	WEST MOUNT "1 B"
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

Attention:	ENERGY STAFFING SERVICES
Address:	2724 NW COUNTY RD
City, State, Zip	HOBBS, NM 88240
Phone:	575-393-9048
Email:	NATALIE@ENERGYSTAFFINGLLC.COM

Lab Use Only

Lab WO# E508049 | Job Number 20046.0001

TAT				EPA Program	
1D	2D	3D	Standard	CWA	SDWA
	X				RCRA

State: NM X | CO | UT | AZ | TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM	BGDOC TX			Remarks
1000	8/4/25	S	1	BACK FILL COMP 1 - SURF	1									X				34

Analysis and Method

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. RIVERA

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

	Date	Time		Date	Time
Relinquished by: (Signature)	8/4/25	1300	Received by: (Signature) Michelle Gonzales	8.5.25	1300
Relinquished by: (Signature) Michelle Gonzales	8-5-25	1500	Received by: (Signature) Marissa Gonzales	8-5-25	1500
Relinquished by: (Signature) Marissa Gonzales	8-5-25	1915	Received by: (Signature) Andrew Musso	8.5.25	1915

Lab Use Only — Received on ice: (Y) / N

T1 ____ T2 ____ T3 ____

AVG Temp °C ____

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other ____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Andrew Musso	8.5.25	2330	Earth Mars	8.6.25	0630

envirotech

Envirotech Analytical Laboratory

Printed: 8/6/2025 8:42:51AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Mack Energy	Date Received:	08/06/25 06:30	Work Order ID:	E508049
Phone:	(575) 390-6397	Date Logged In:	08/05/25 15:19	Logged In By:	Caitlin Mars
Email:	Natalie@energystaffingllc.com	Due Date:	08/07/25 07:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling	Yes	
13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filtration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Comments/Resolution

Project manager not provided on COC.

Client Instruction

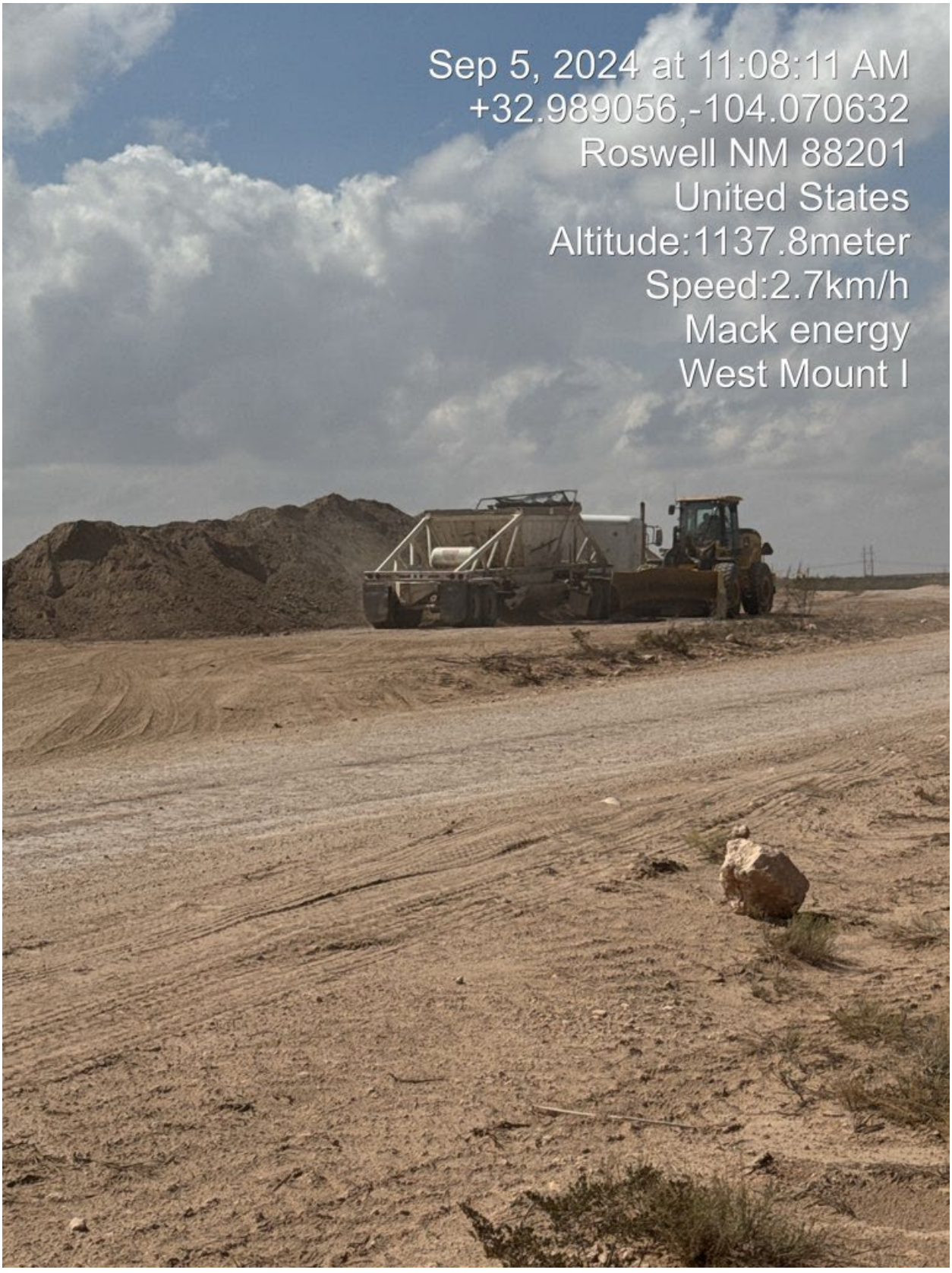
Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

MACK ENERGY CORPORATION
WEST MOUNT SPILL I
REMEDIATION PHOTOS


Sep 5, 2024 at 11:08:16 AM
+32.989056,-104.070632
Roswell NM 88201
United States
Altitude:1137.8meter
Speed:2.7km/h
Mack energy
West Mount I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+32.989056,-104.070632
Roswell NM 88201
United States
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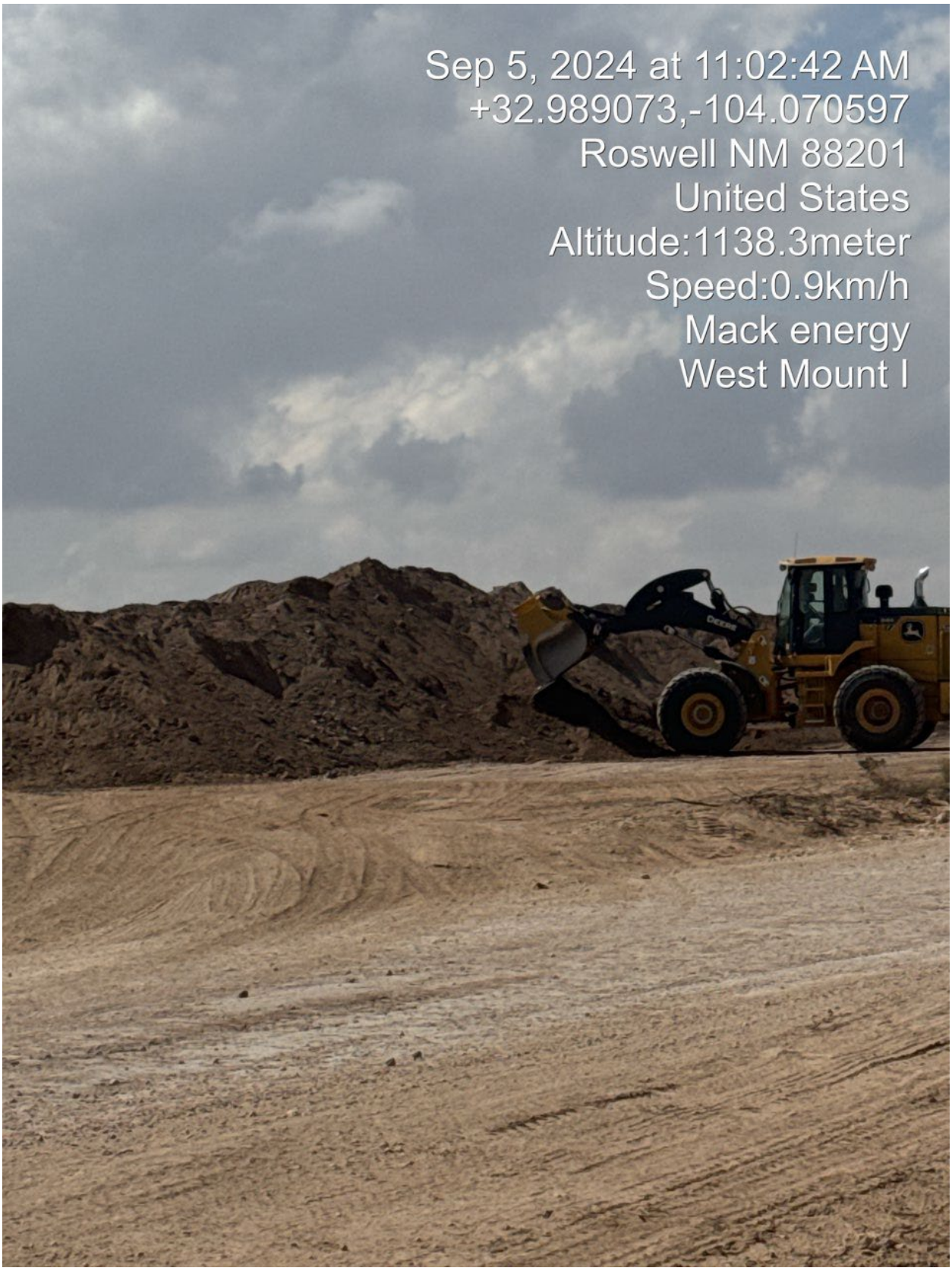
Speed:2.7km/h
Mack energy
West Mount I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Roswell NM 88201
United States
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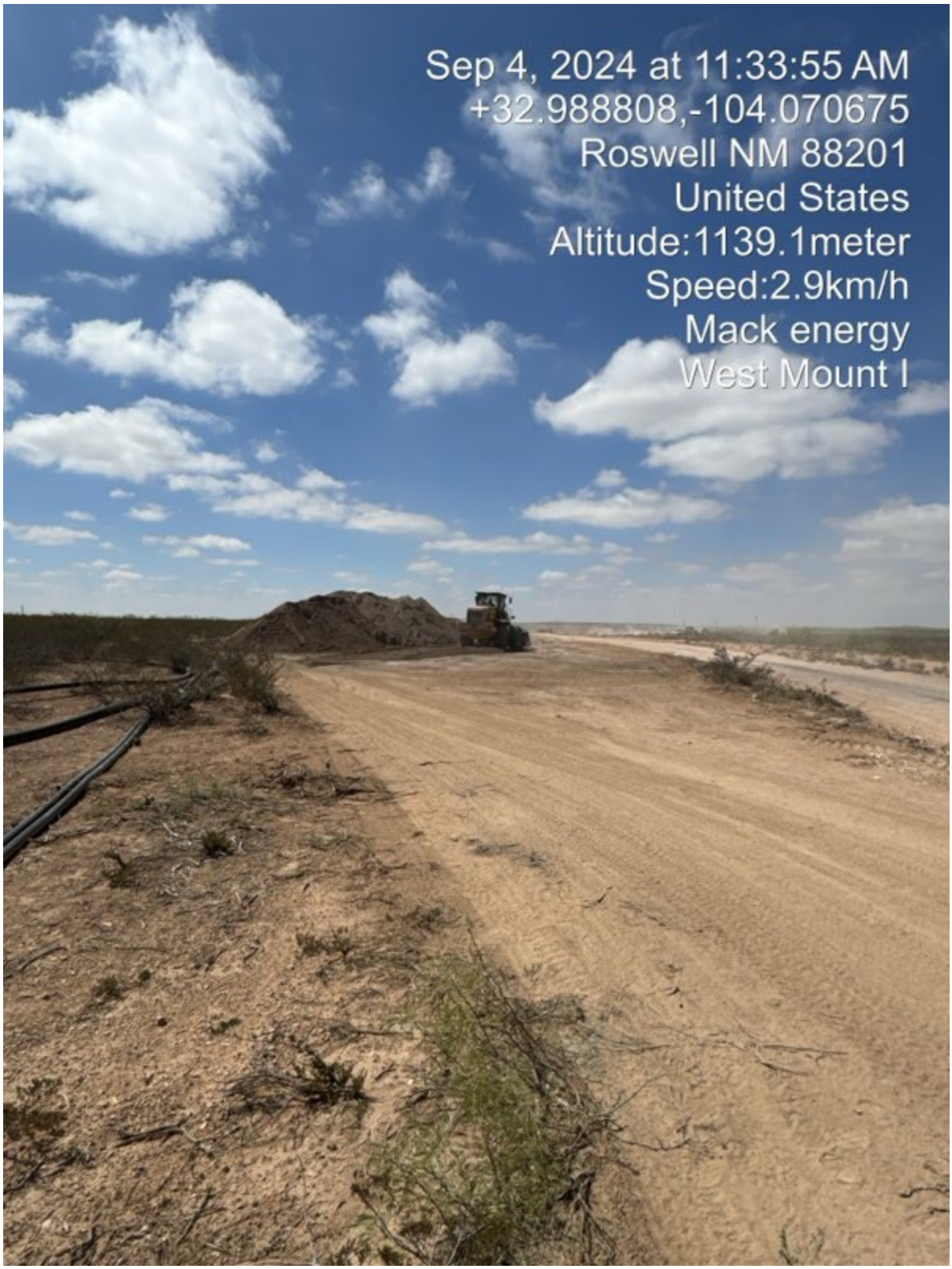
Speed:0.9km/h
Mack energy
West Mount I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Roswell NM 88201
United States
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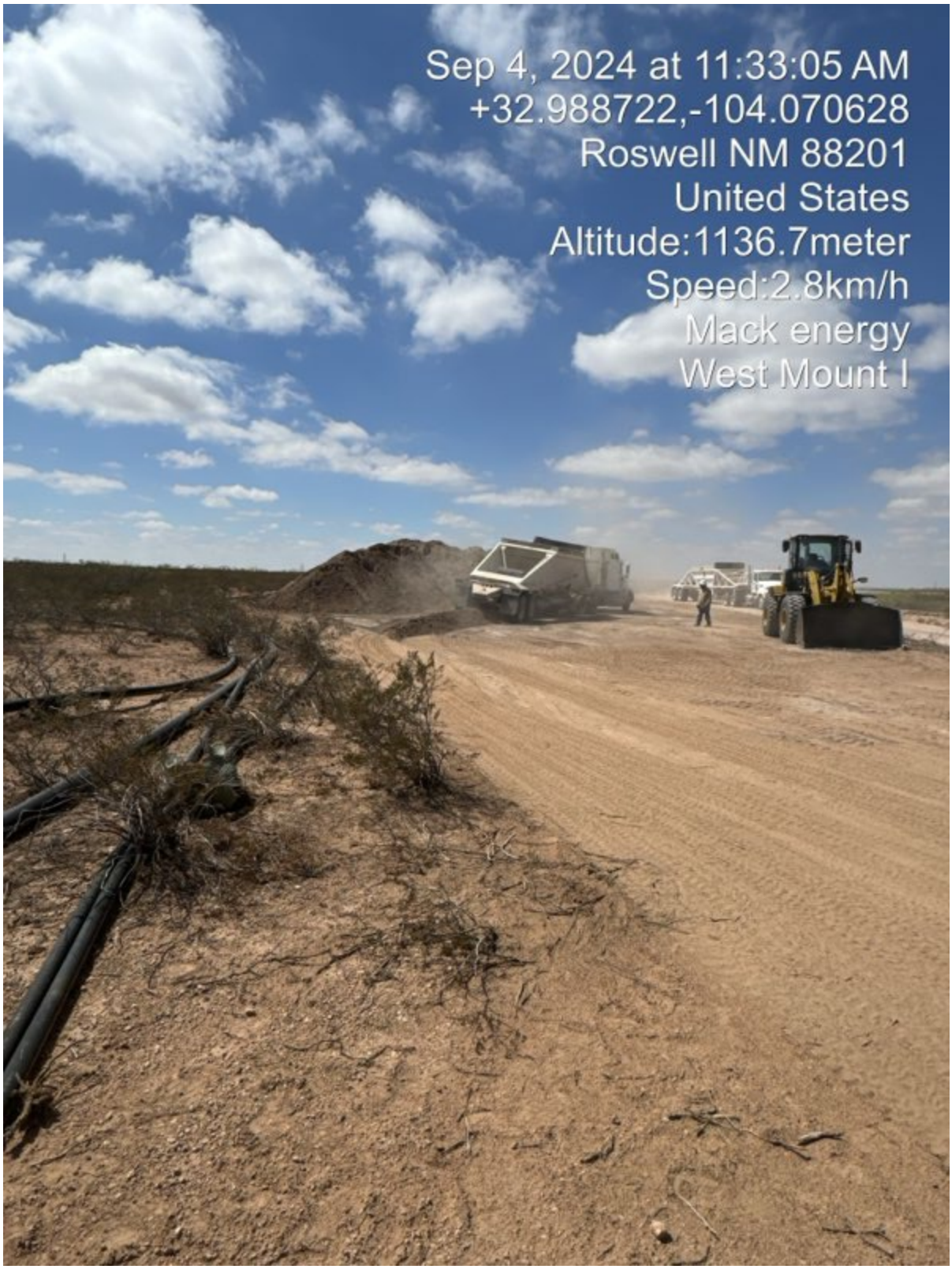
Mack energy
West Mount I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Roswell NM 88201
United States
Altitude:1136.7meter
Speed:2.8km/h
Mack energy
West Mount I


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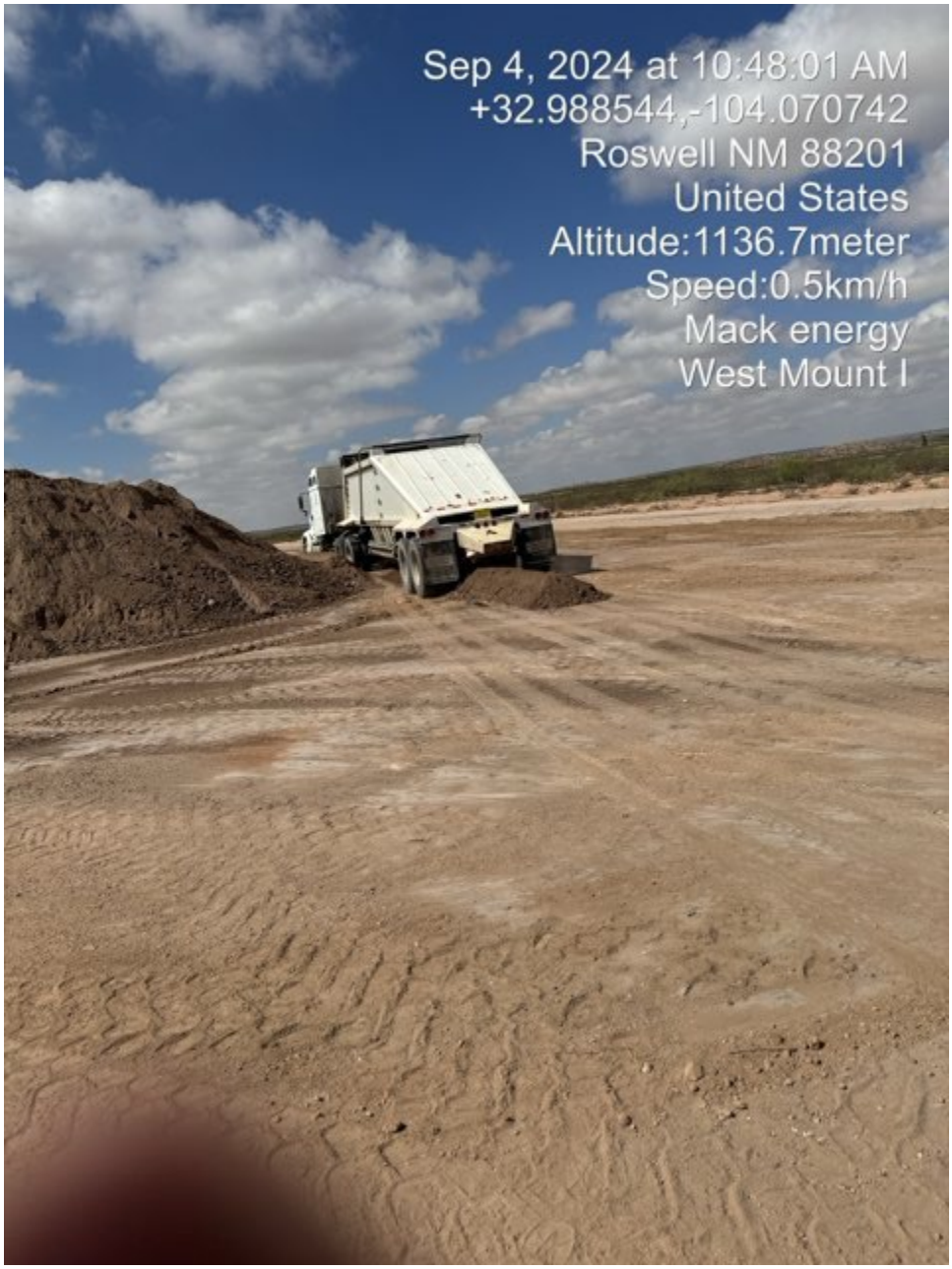
+32.988544,-104.070742
Roswell NM 88201
United States
Altitude:1136.7meter
Speed:0.5km/h
Mack energy
West Mount I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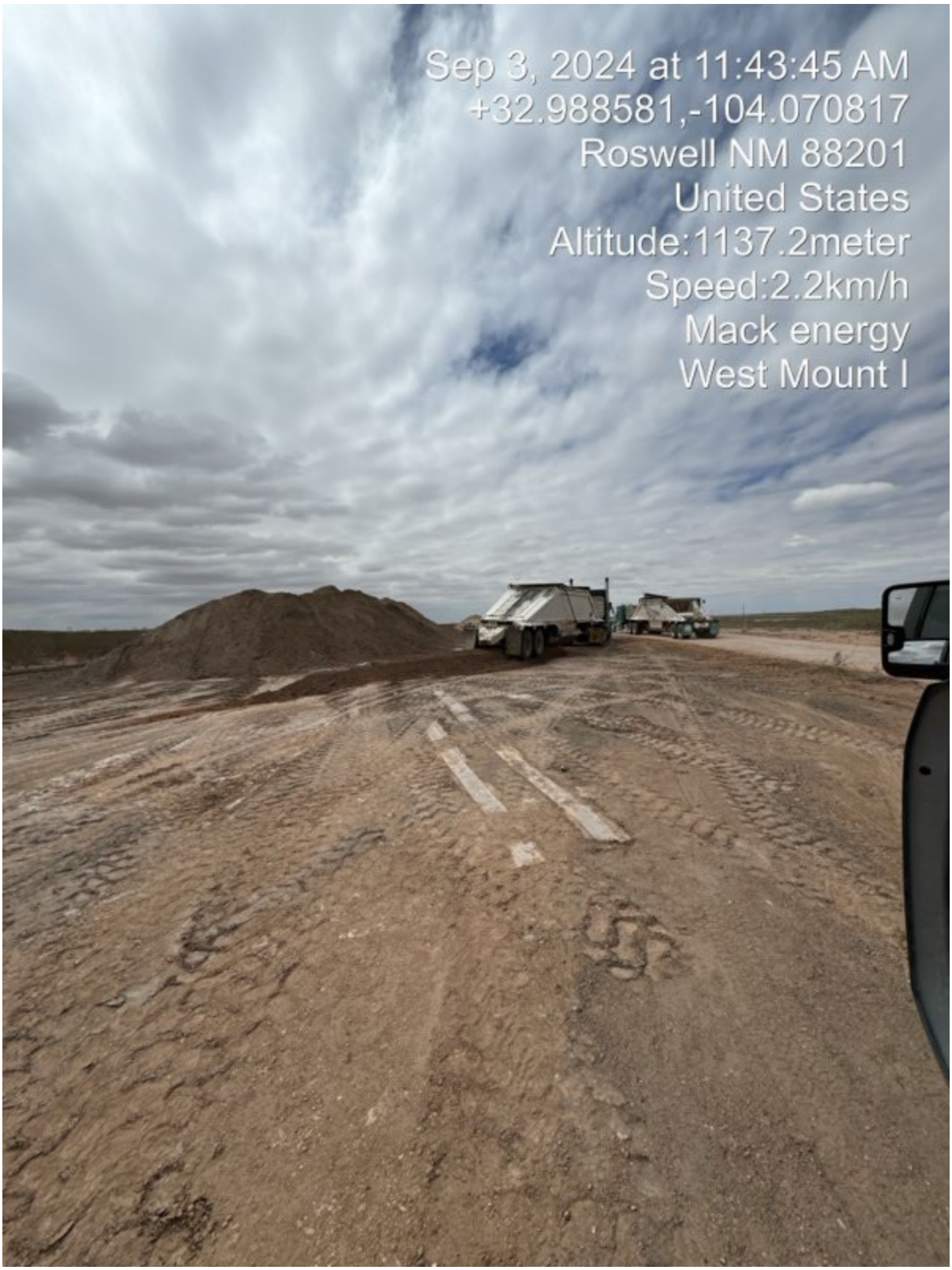
Roswell NM 88201
United States
Altitude:1136.7meter
Speed:0.5km/h
Mack energy
West Mount I


Sep 4, 2024 at 10:36:53 AM
+32.988775,-104.070722
Roswell NM 88201
United States
Altitude:1138.8meter
Speed:2.7km/h
Mack energy
West Mount I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Roswell NM 88201
United States
Altitude:1137.2meter
Speed:2.2km/h
Mack energy
West Mount I


Sep 3, 2024 at 11:43:42 AM
+32.988581,-104.070817
Roswell NM 88201
United States
Altitude:1137.2meter
Speed:2.2km/h
Mack energy
West Mount I


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Roswell NM 88201
United States
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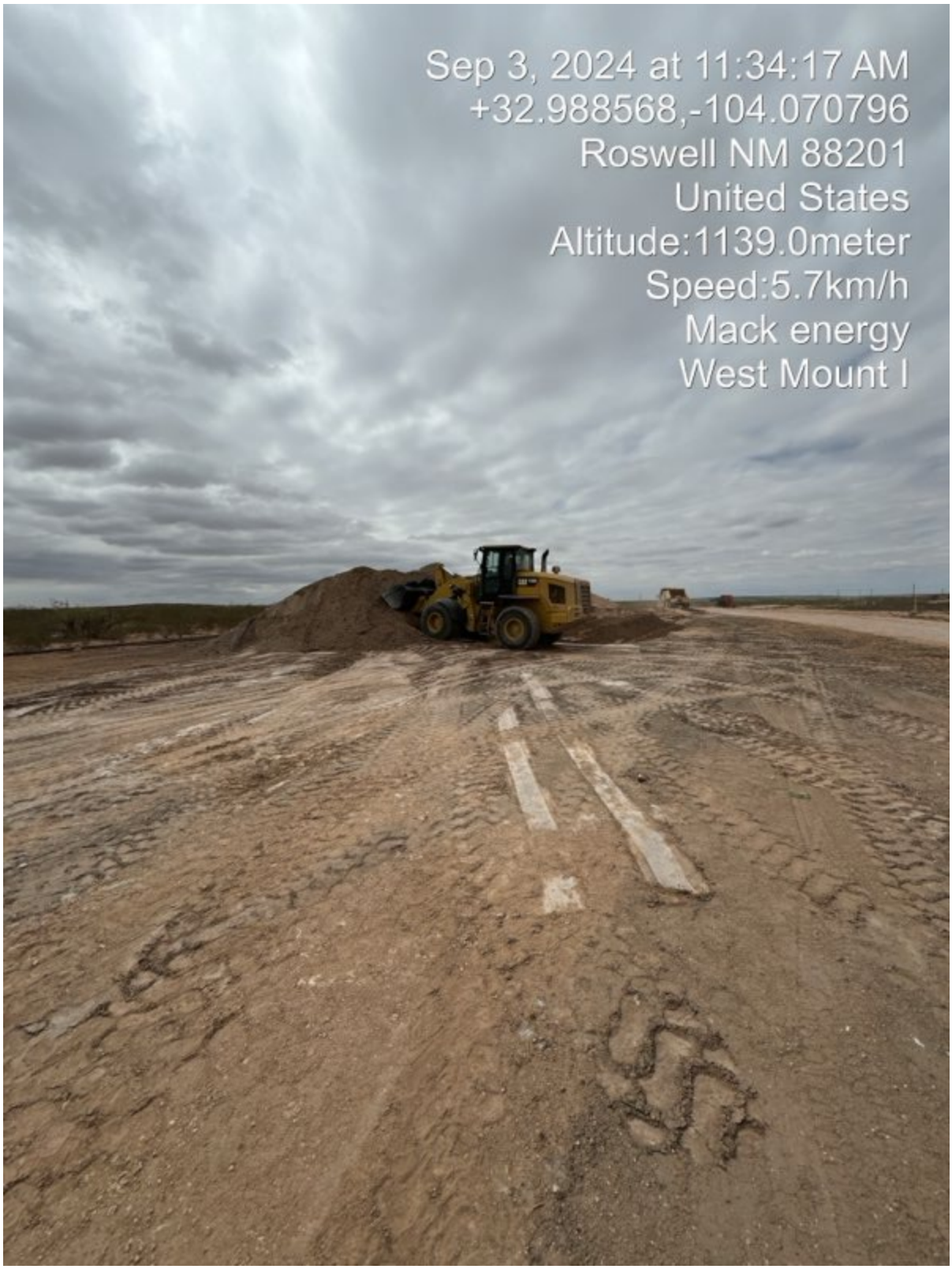
Speed:5.7km/h
Mack energy
West Mount I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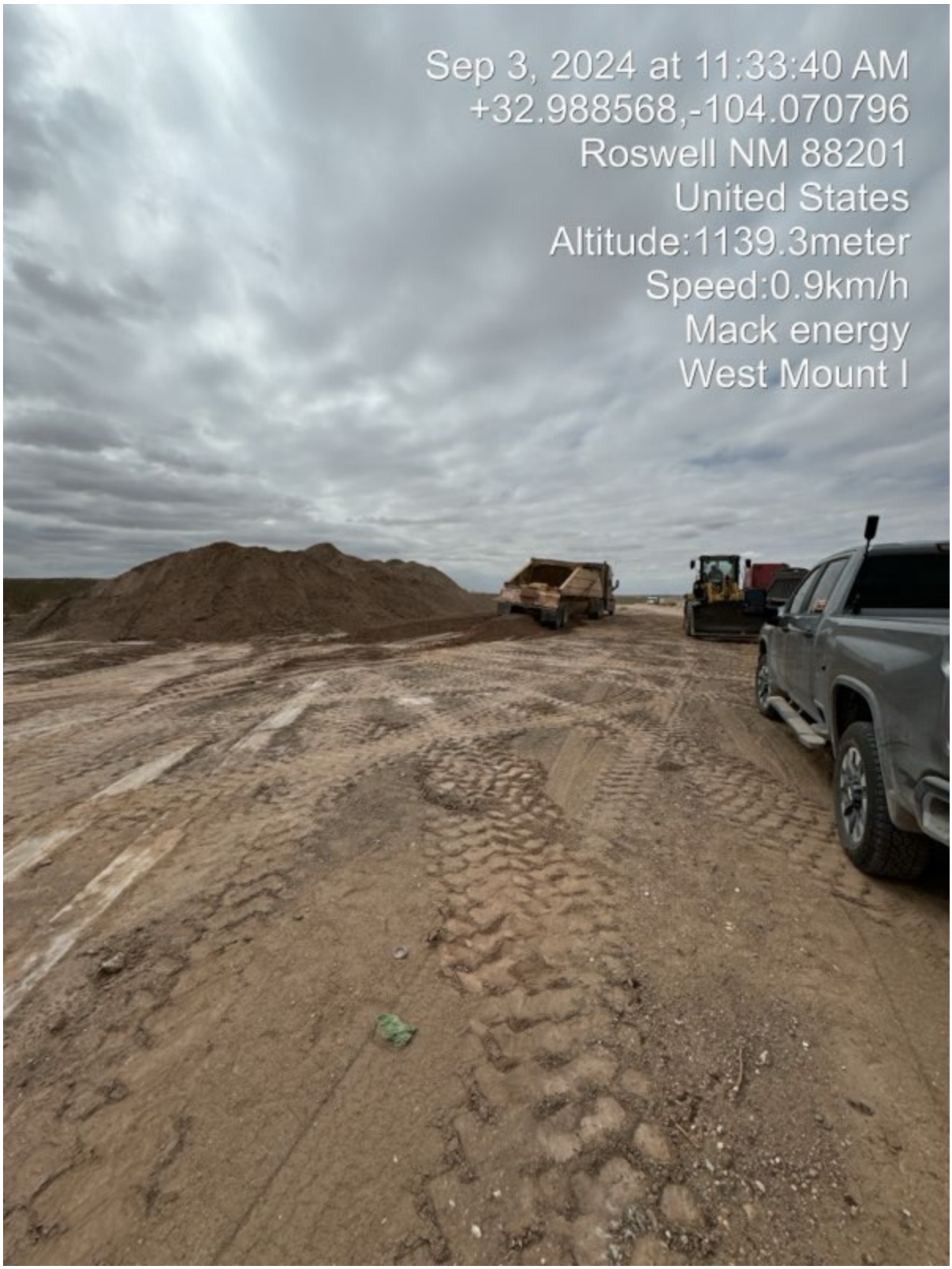
Roswell NM 88201
United States
Altitude:1139.0meter
Speed:5.7km/h
Mack energy
West Mount I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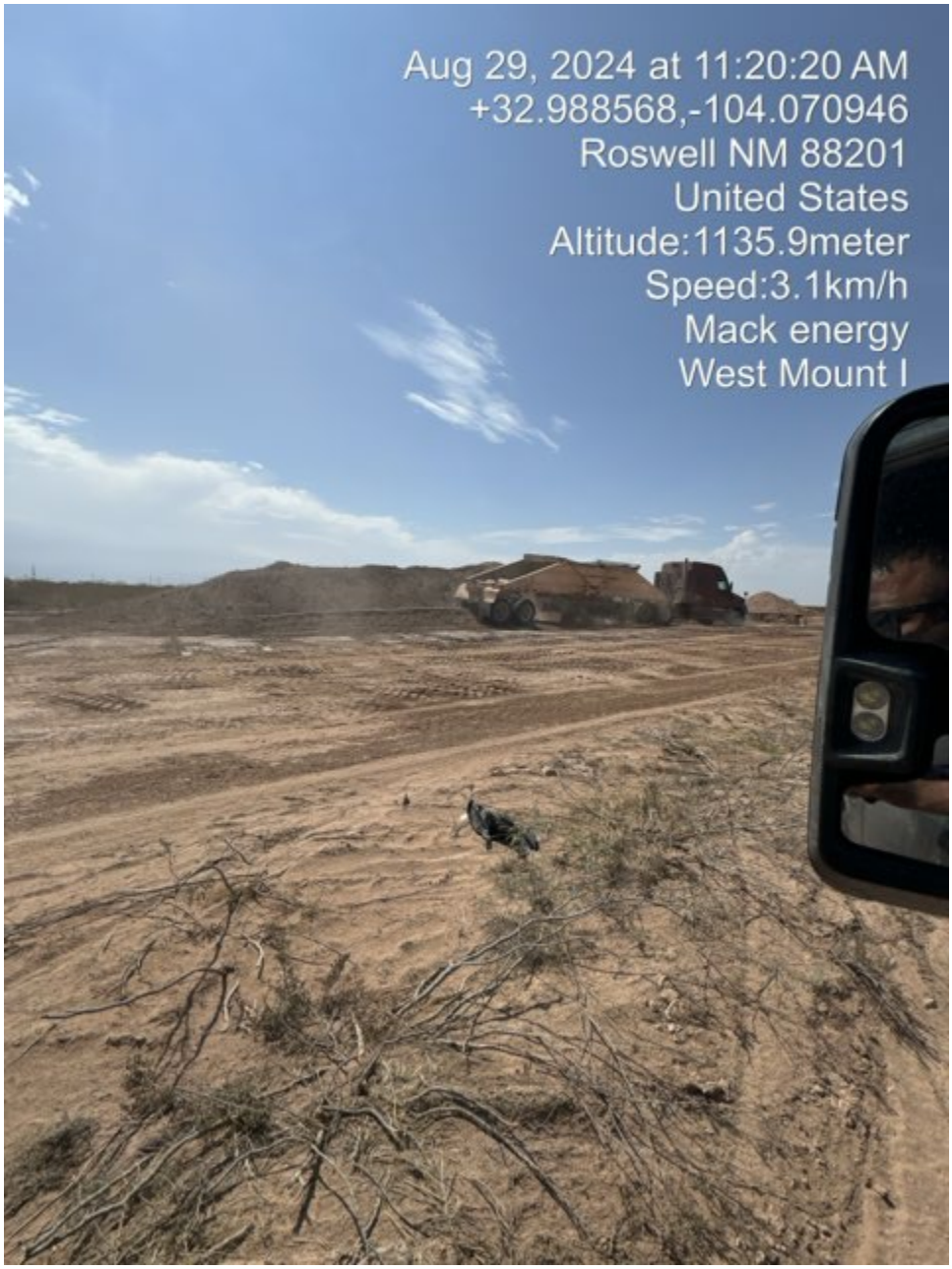
Roswell NM 88201
United States
Altitude:1139.3meter
Speed:0.9km/h
Mack energy
West Mount I


Aug 29, 2024 at 11:20:20 AM
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Roswell NM 88201
United States
Altitude:1135.9meter
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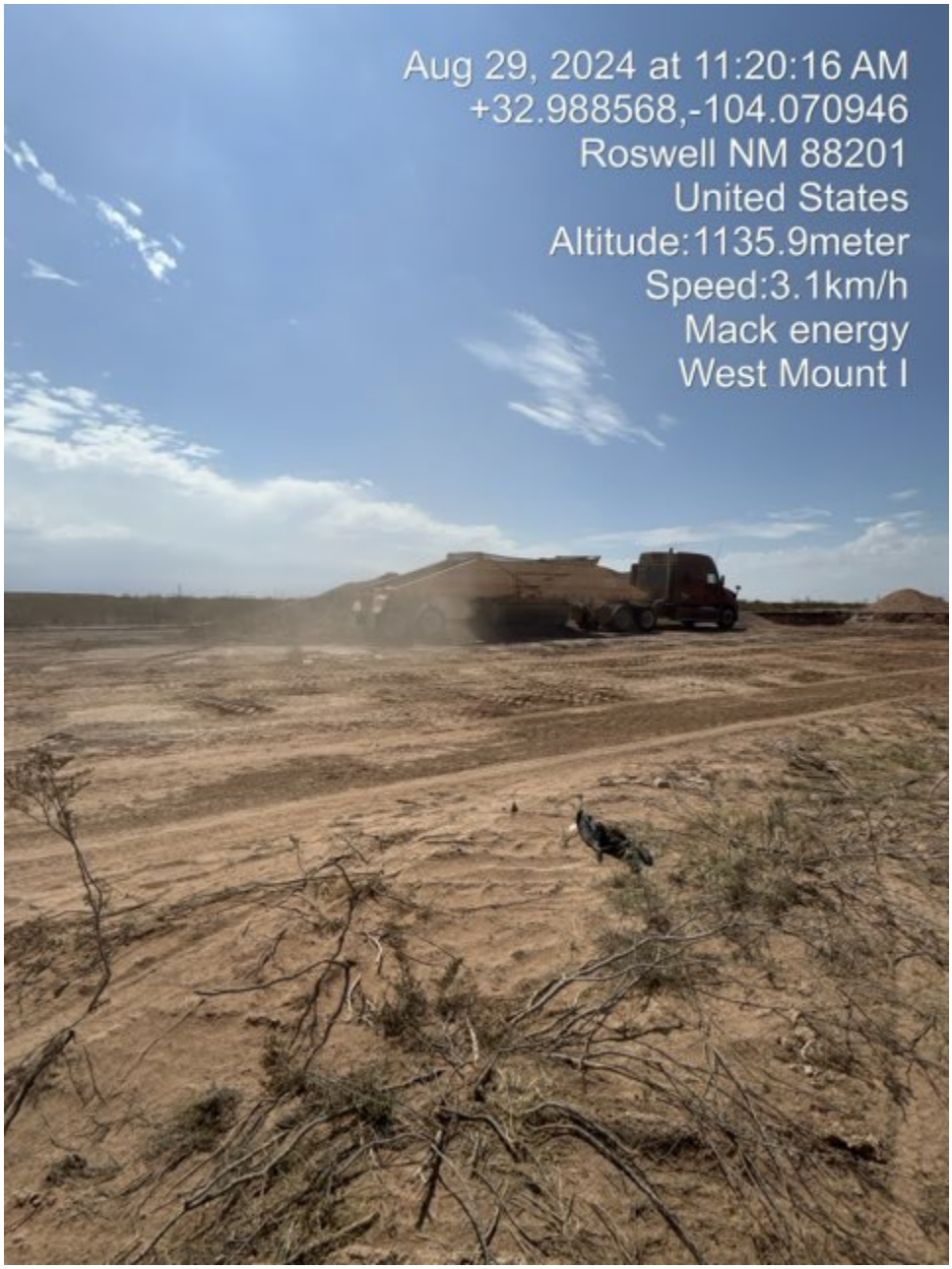
Mack energy
West Mount I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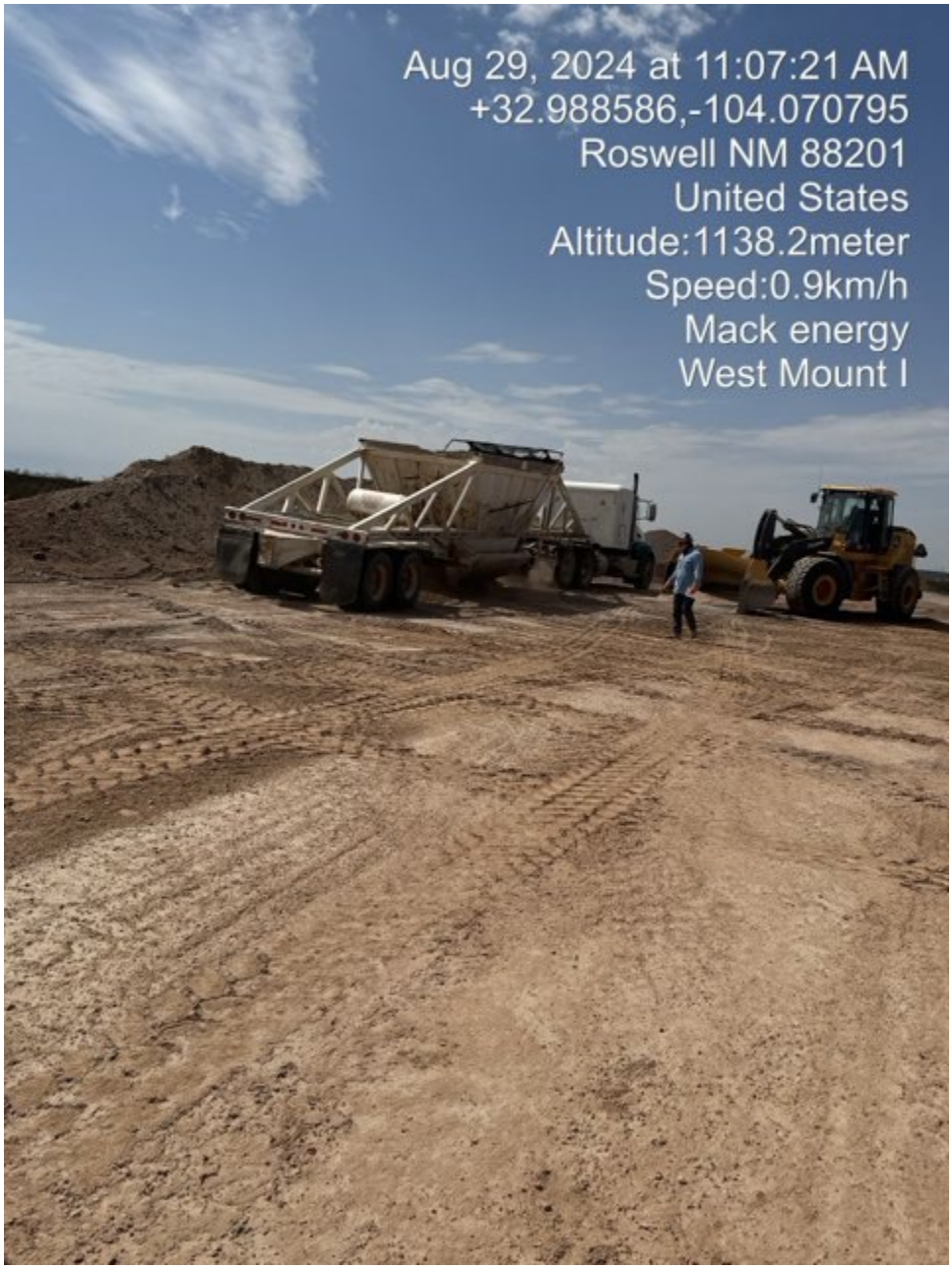
Mack energy
West Mount I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Mack energy
West Mount I


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Altitude:1137.0meter
Speed:0.2km/h
Mack energy
West Mount I


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Speed:0.2km/h
Mack energy
West Mount I


Aug 28, 2024 at 11:48:49 AM
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Altitude:1135.9meter
Speed:1.9km/h
Mack energy
West Mount I


Aug 28, 2024 at 11:48:45 AM
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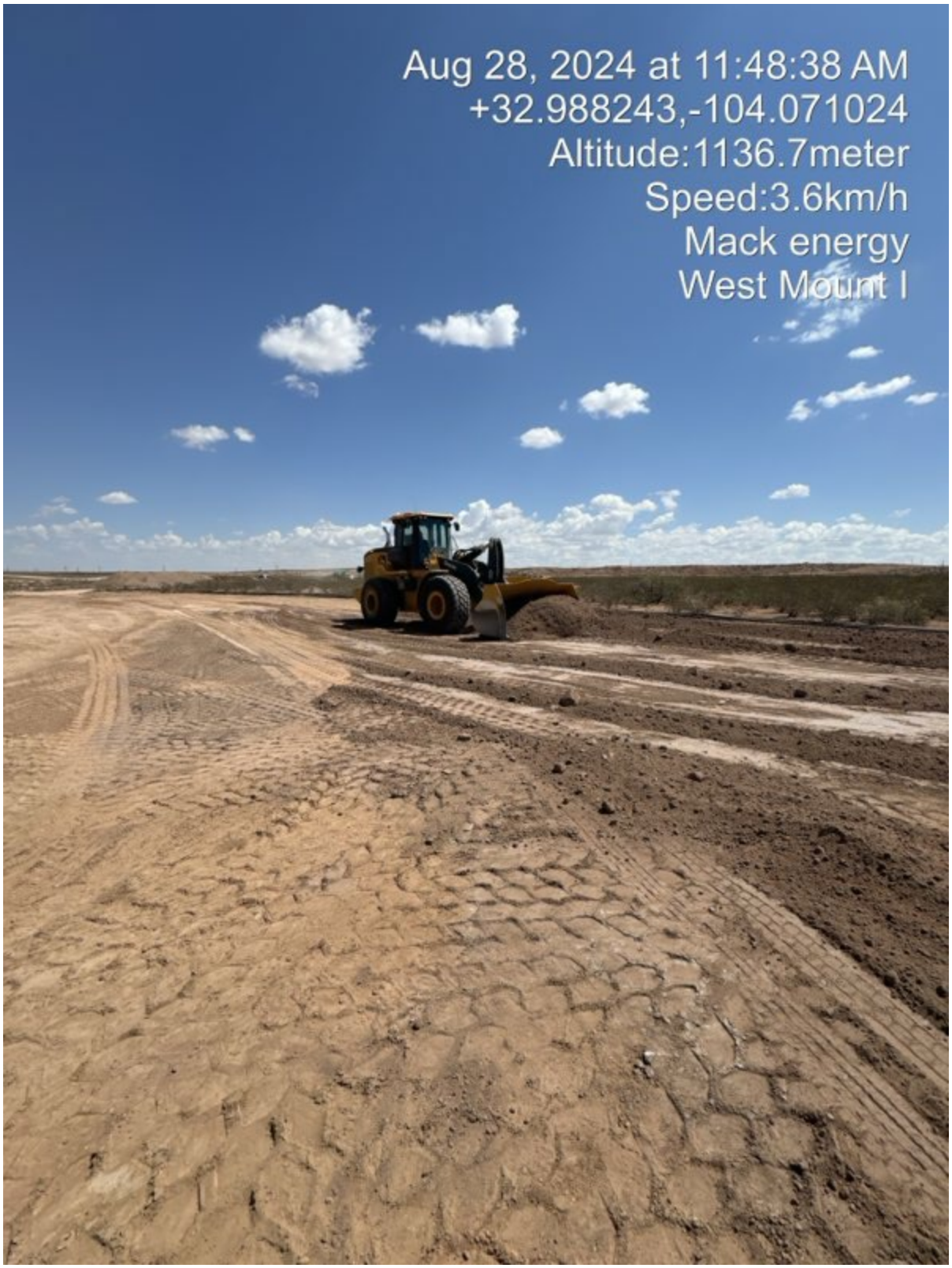
Mack energy
West Mount I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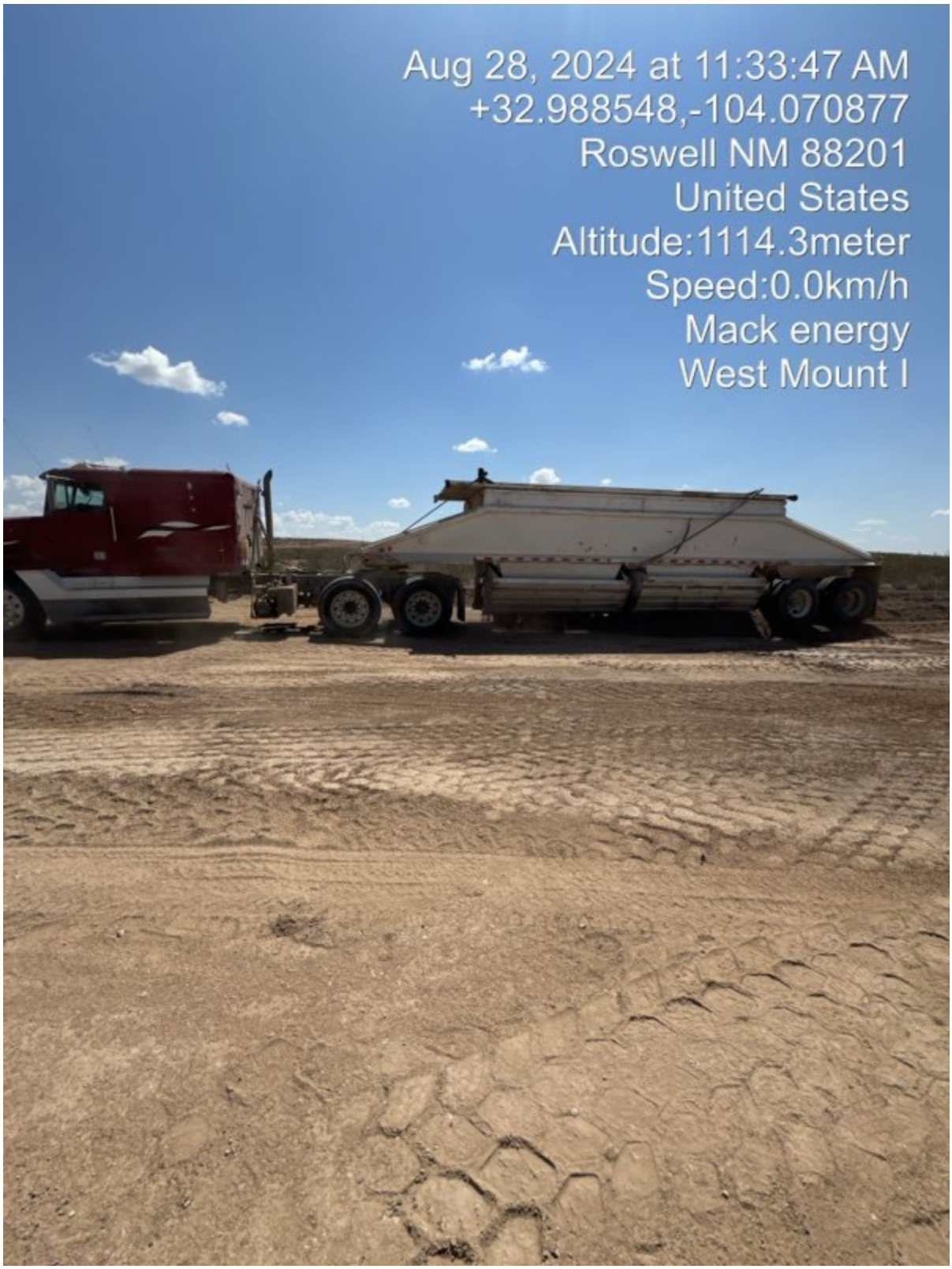
West Mount I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Roswell NM 88201
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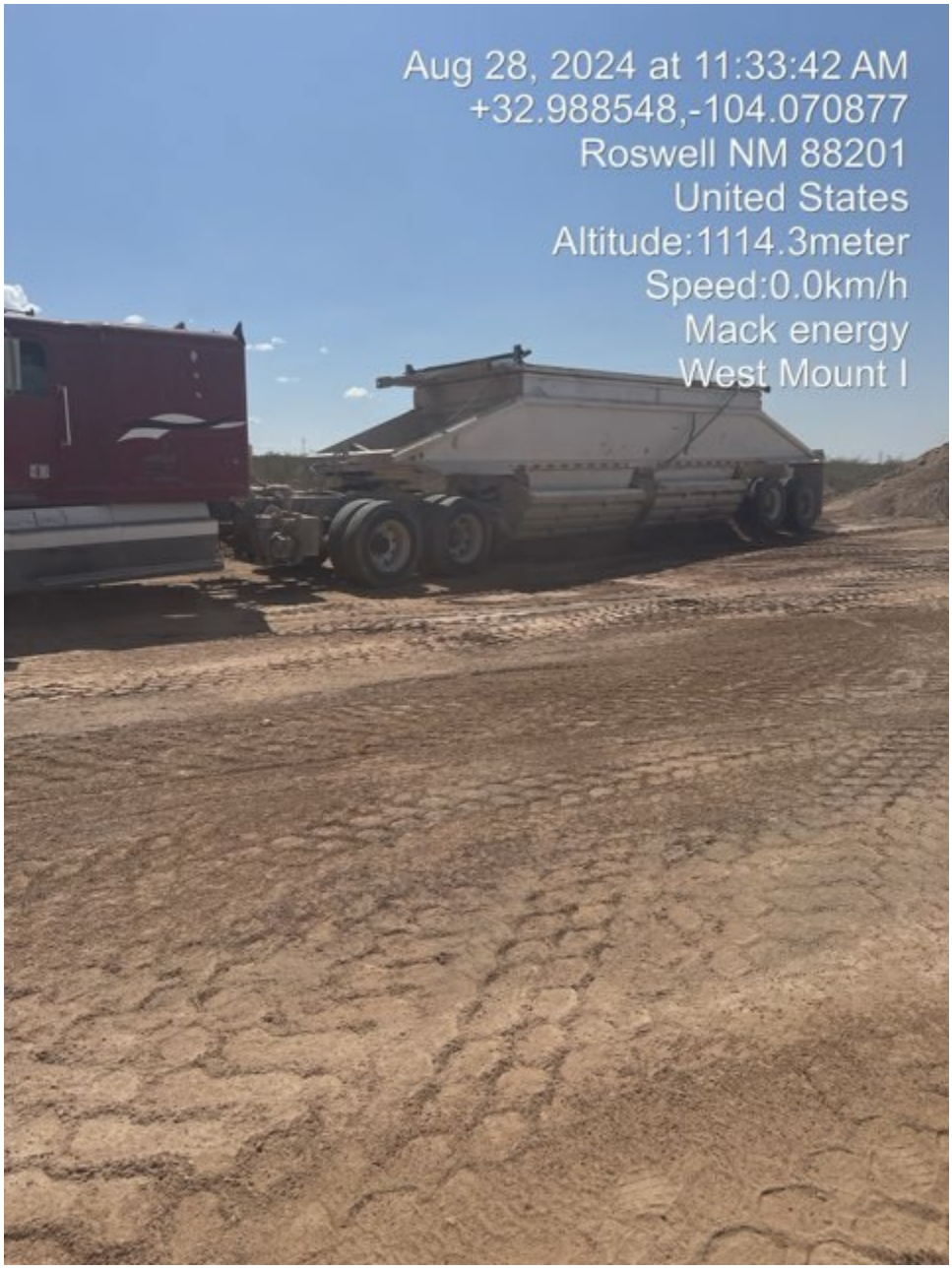
Mack energy
West Mount I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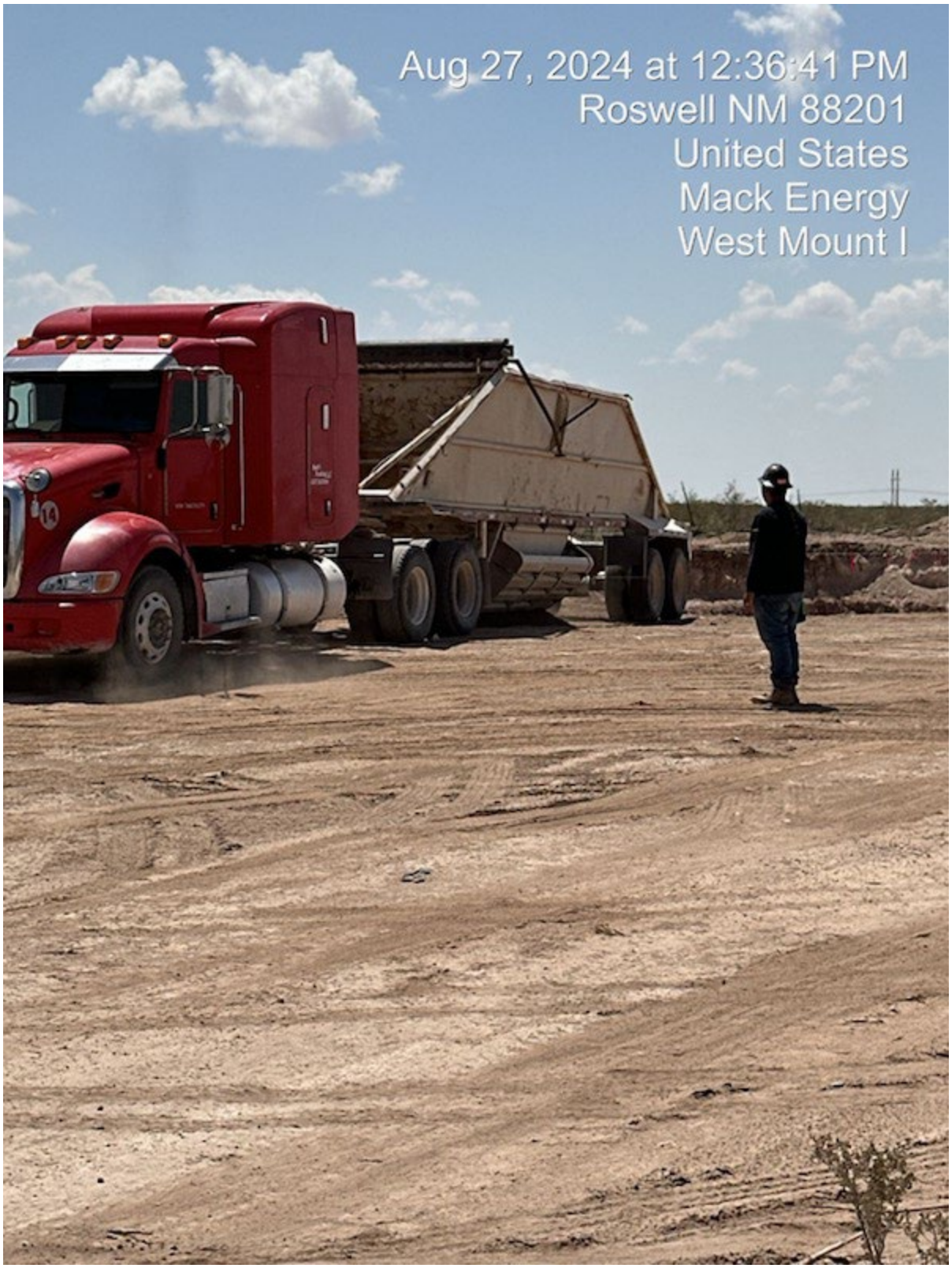
Roswell NM 88201
United States
Altitude:1114.3meter
Speed:0.0km/h
Mack energy
West Mount I


Aug 27, 2024 at 1:20:05 PM
Roswell NM 88201
United States
Mack Energy
West Mount I


Aug 27, 2024 at 1:13:52 PM
Roswell NM 88201
United States
Mack Energy
West Mount I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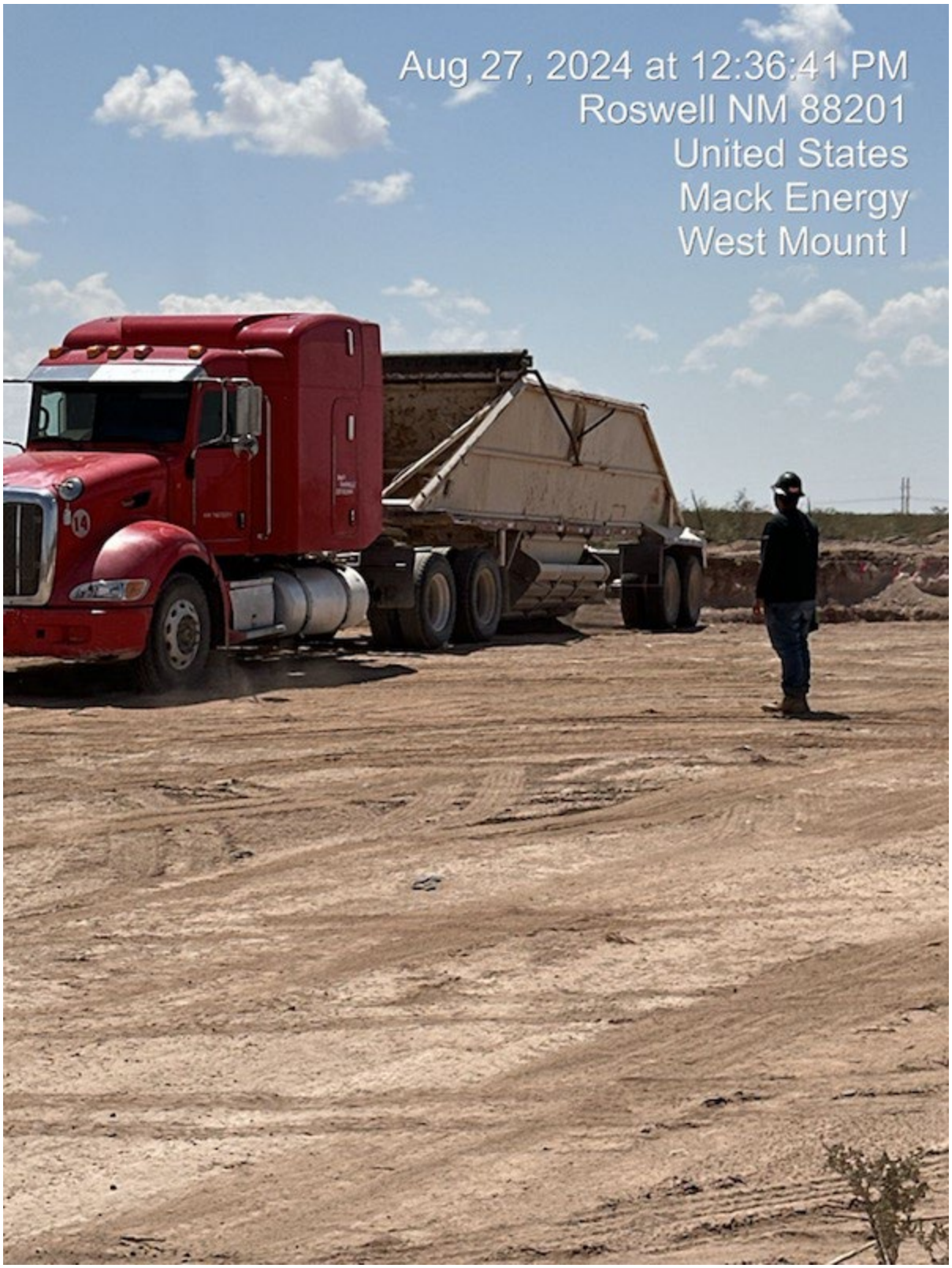
Roswell NM 88201
United States
Mack Energy
West Mount I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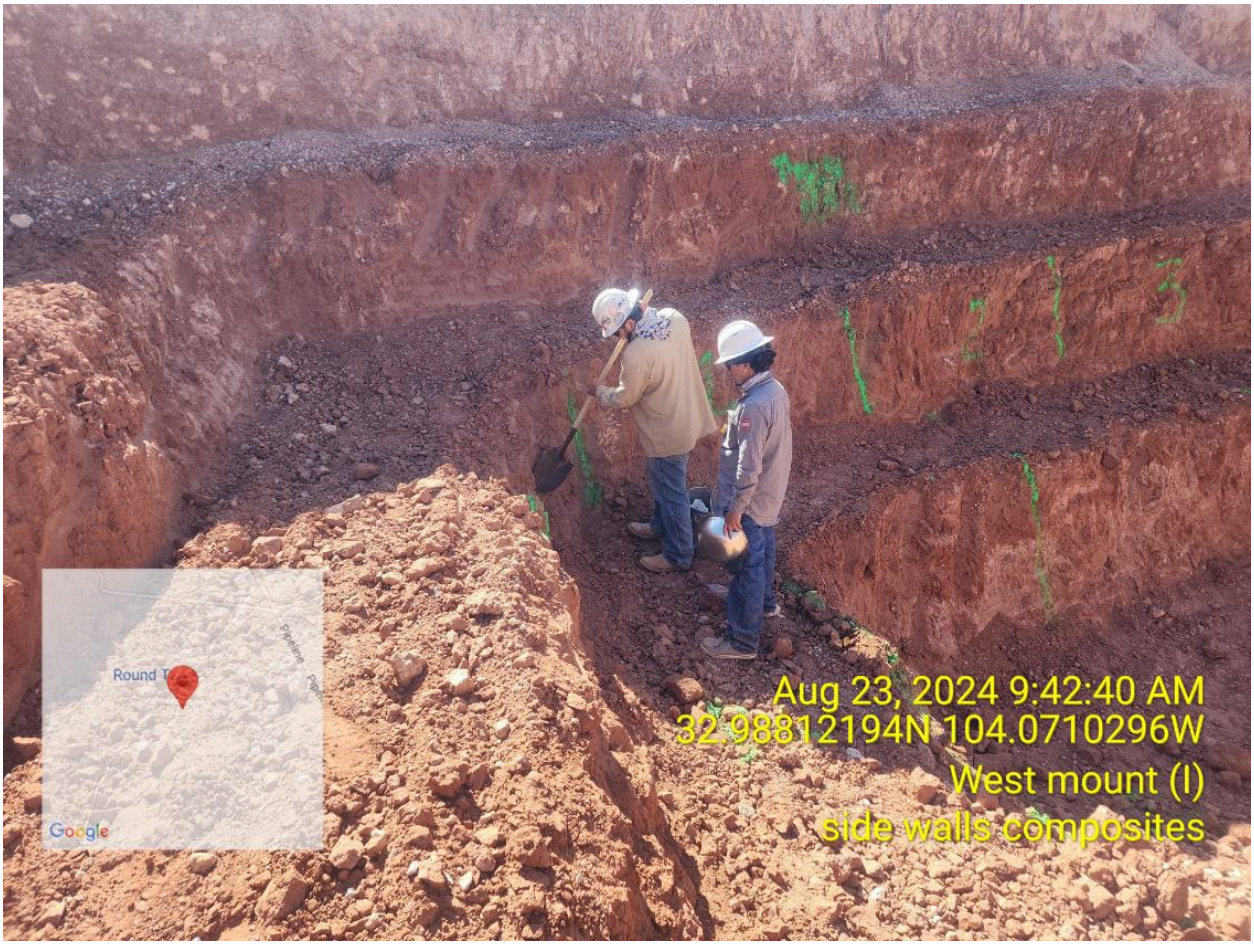
Mack Energy
West Mount I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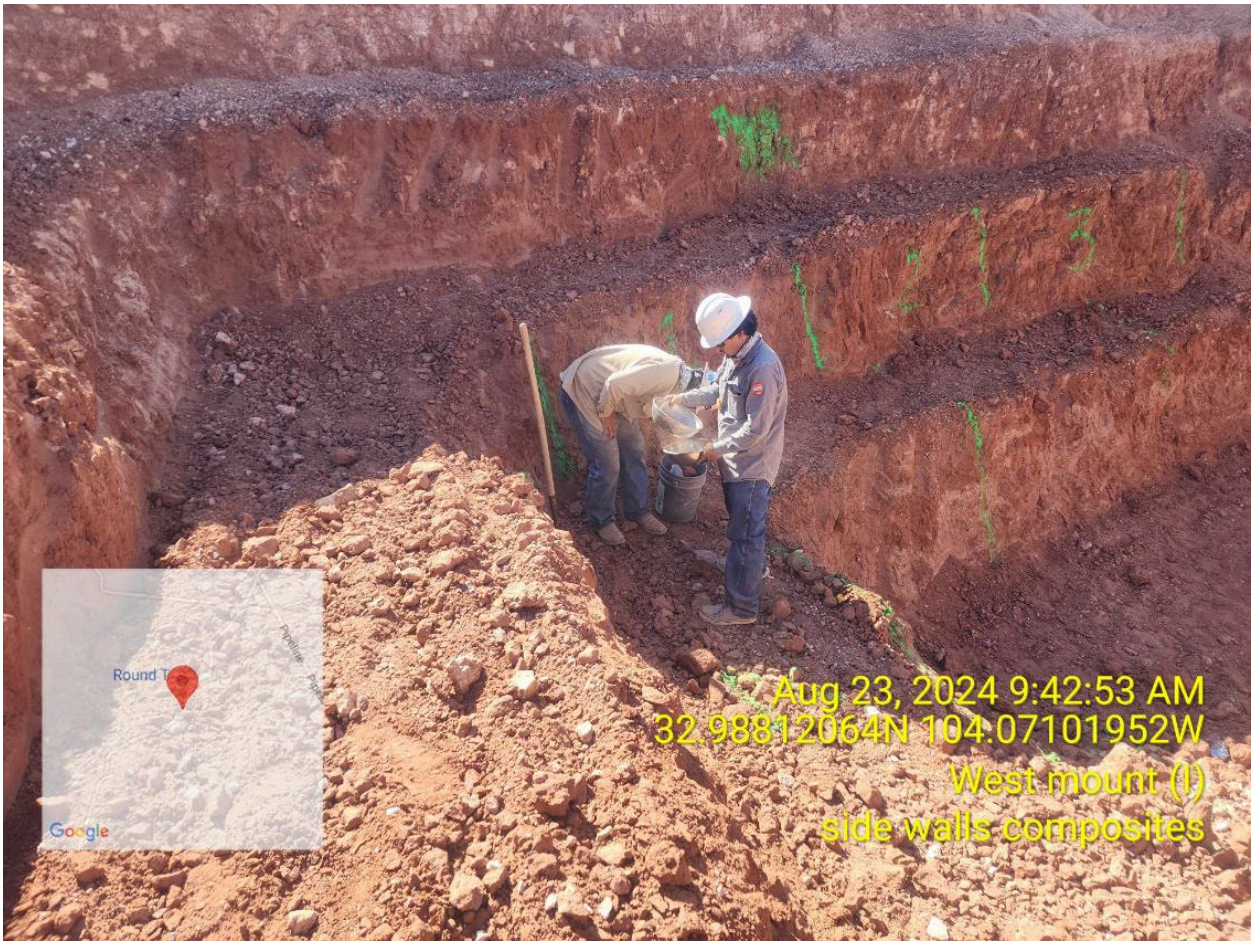
West mount (I)
side walls composites
Google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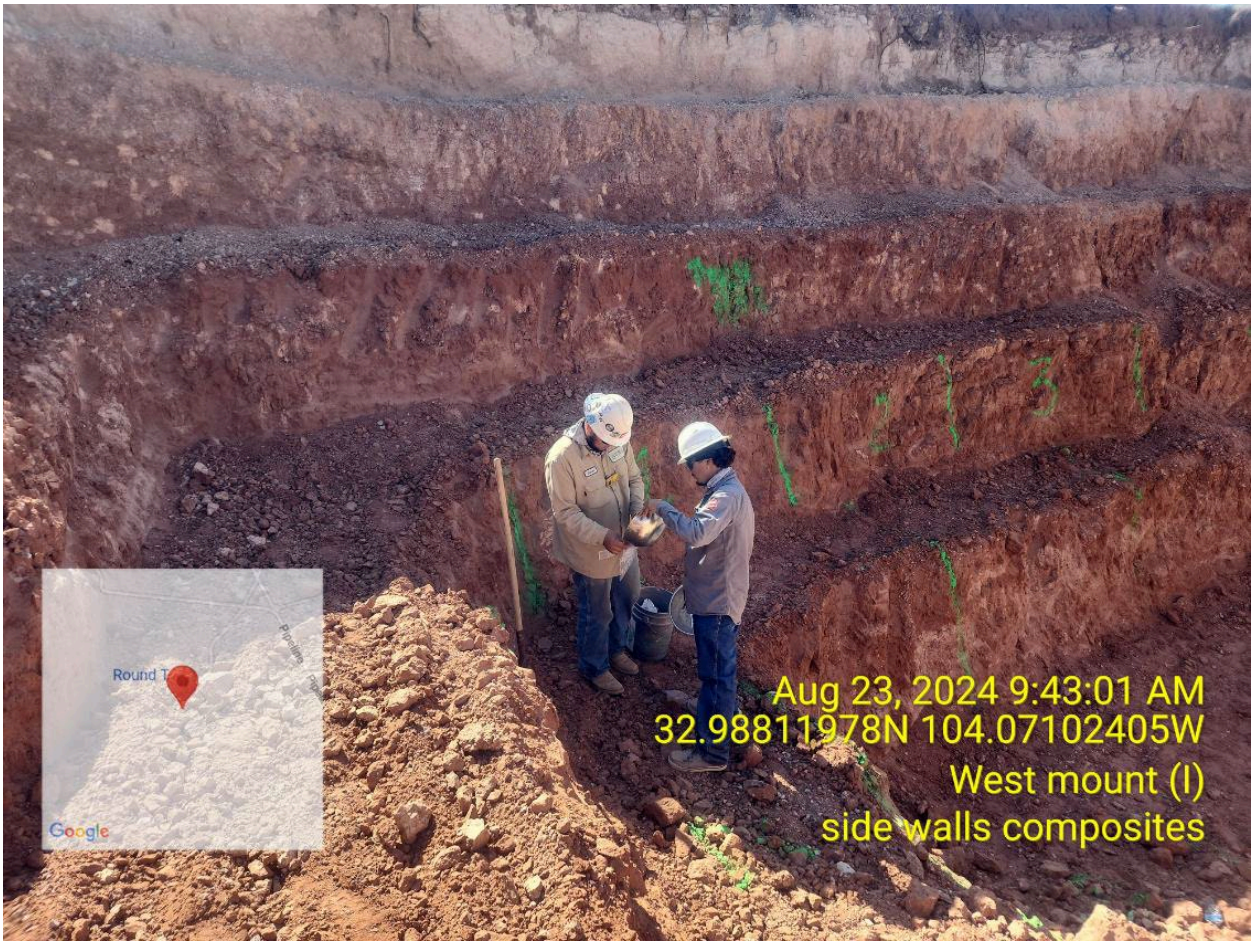
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West mount (I)
side walls composites
Google


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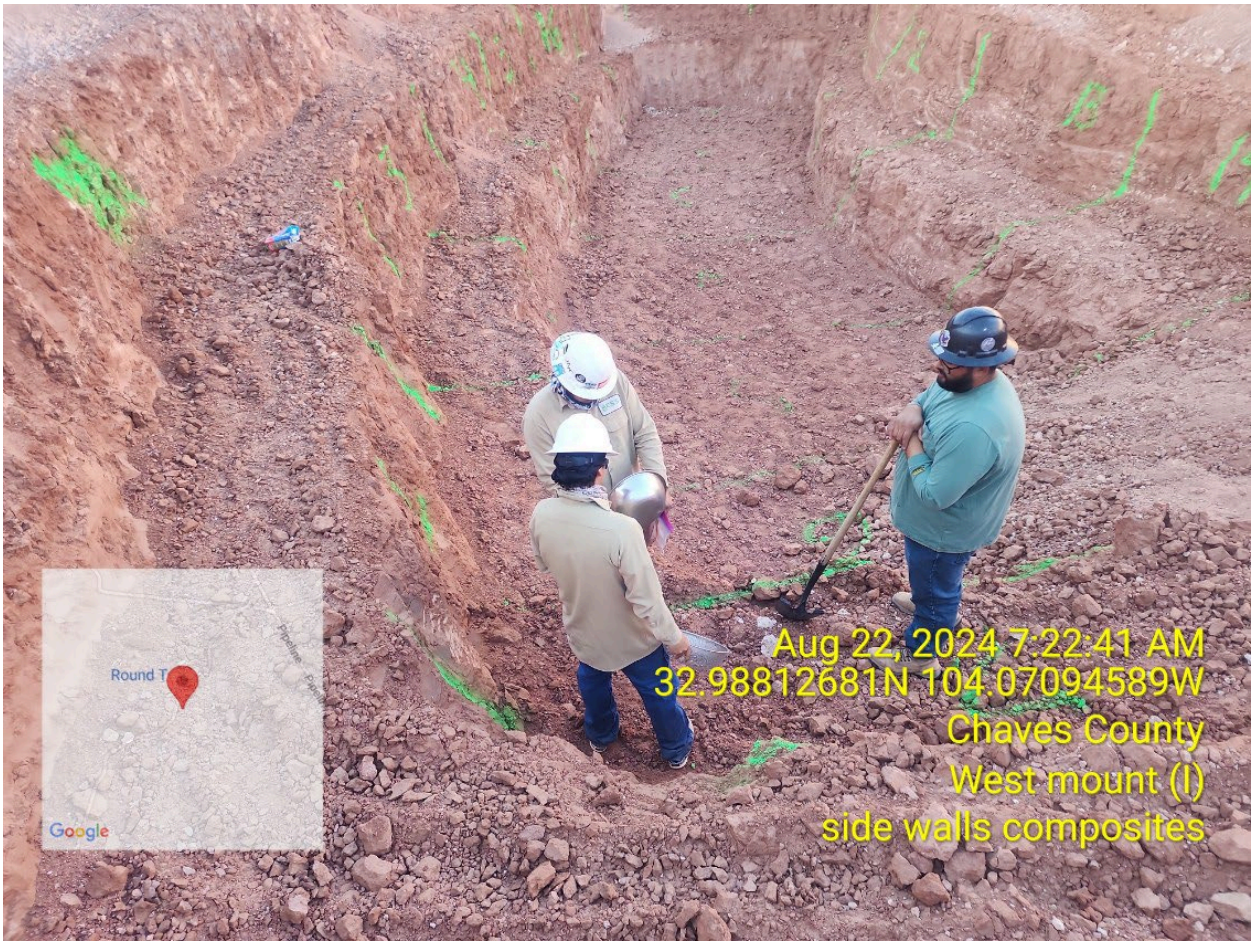
West mount (I)
side walls composites
Google


Round T
Google
Aug 22, 2024 7:22:41 AM
32.98812681N 104.07094589W
Chaves County
West mount (I)
side walls composites


Jul 30, 2024 at 12:23:56 PM
+32.988670,-104.070702
Roswell NM 88201
United States
Altitude:1115.4meter
Speed:0.0km/h
Mack energy
West Mount I


Jul 30, 2024 at 12:23:49 PM
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Roswell NM 88201
United States
Altitude:1115.4meter
Speed:0.0km/h
Mack energy
West Mount I


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+32.989845,-104.069336
Altitude:1116.0meter
Speed:0.0km/h
Mack energy
West Mount I
824L


E
N
S
W
24 jul 2024 10:12:32 a. m.
32.98813946N 104.07112196W
94° E
US Highway 285
Hagerman
Chaves County
New Mexico
Altitud:1116.1m
Velocidad:0.0km/h
Número de índice: 460
Google


24 jul 2024 10:13:12 a. m.
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53° NE
Unnamed Road
Roswell
Chaves County
New Mexico
Altitud:1114.5m
Velocidad:0.0km/h
Número de índice: 463
Pipeline
Google


S
E
W
N
CAT
24 jul 2024 10:13:40 a. m.
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180° S
Unnamed Road
Roswell
Chaves County
New Mexico
Altitud:1116.4m
Velocidad:0.0km/h
Número de índice: 465
Round T
Pipeline
Google


N
E
S
W
23 jul 2024 11:50:11 a. m.
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53° NE
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Roswell
Chaves County
New Mexico
Altitud:1118.6m
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Número de índice: 447
Pipeline
Google


N
W
E
S
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3° N
Unnamed Road
Roswell
Chaves County
New Mexico
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Número de índice: 441
Google


N
E
S
W
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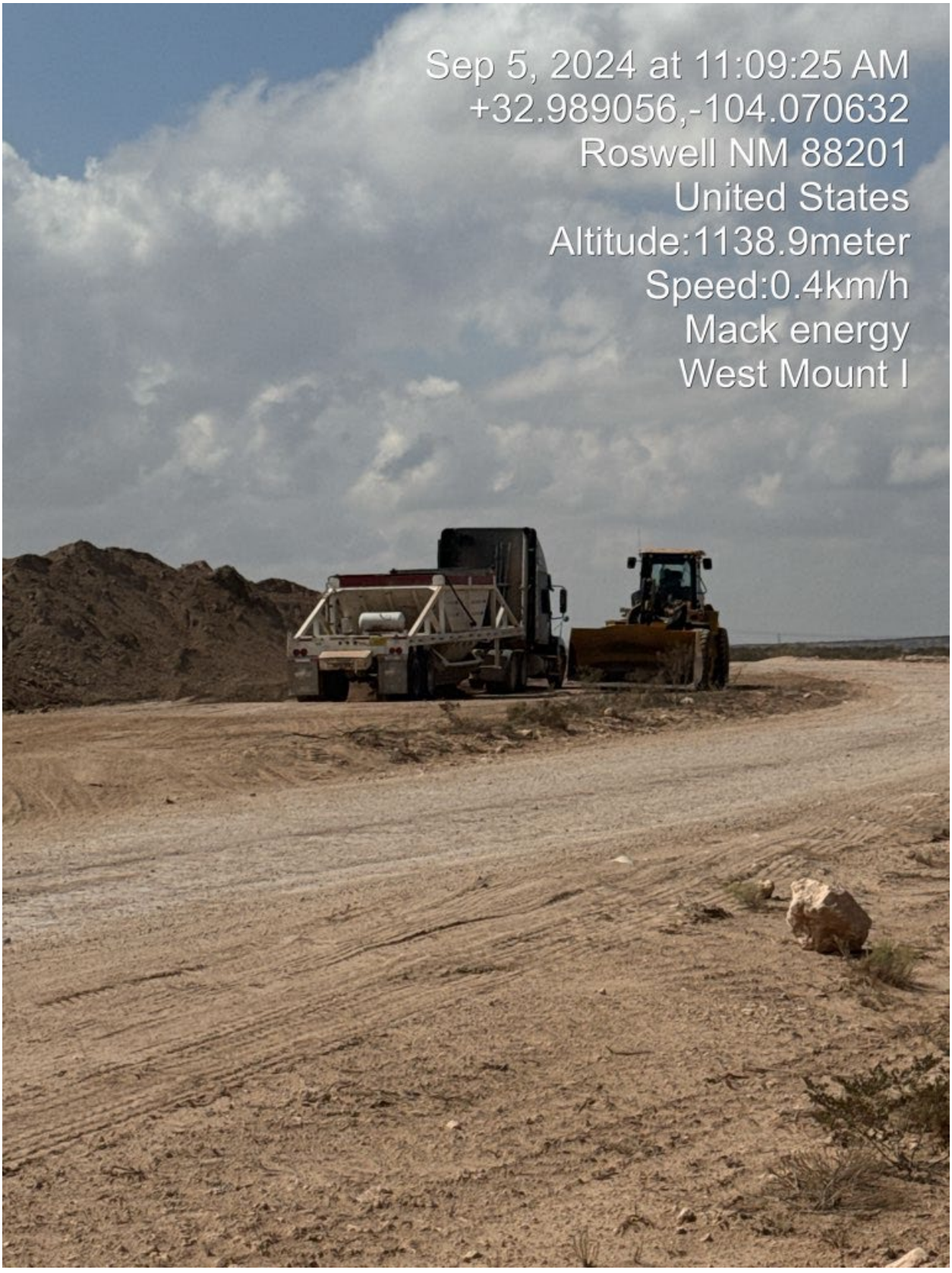
Pipeline
Google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Roswell NM 88201
United States
Altitude:1138.9meter
Speed:0.4km/h
Mack energy
West Mount I

MACK ENERGY CORPORATION
WEST MOUNT SPILL I
RECLAMATION EXECUTIVE SUMMARY
INCIDENT NO. NAPP2329756915

API NO. 30-005-64381
UNIT LETTER C, SECTION 30, TOWNSHIP 15S, RANGE 29E
CHAVES COUNTY, NEW MEXICO

Reclamation Executive Summary

Subject: Final Reclamation Summary-West Mount Spill I (Incident No. NAPP2329756915)

On January 14, 2025 ESS initiated and completed reclamation activities at the West Mount Spill H site following the finalization of remediation efforts for the release that occurred on September 21, 2023 (Incident Number: NAPP2329756915).

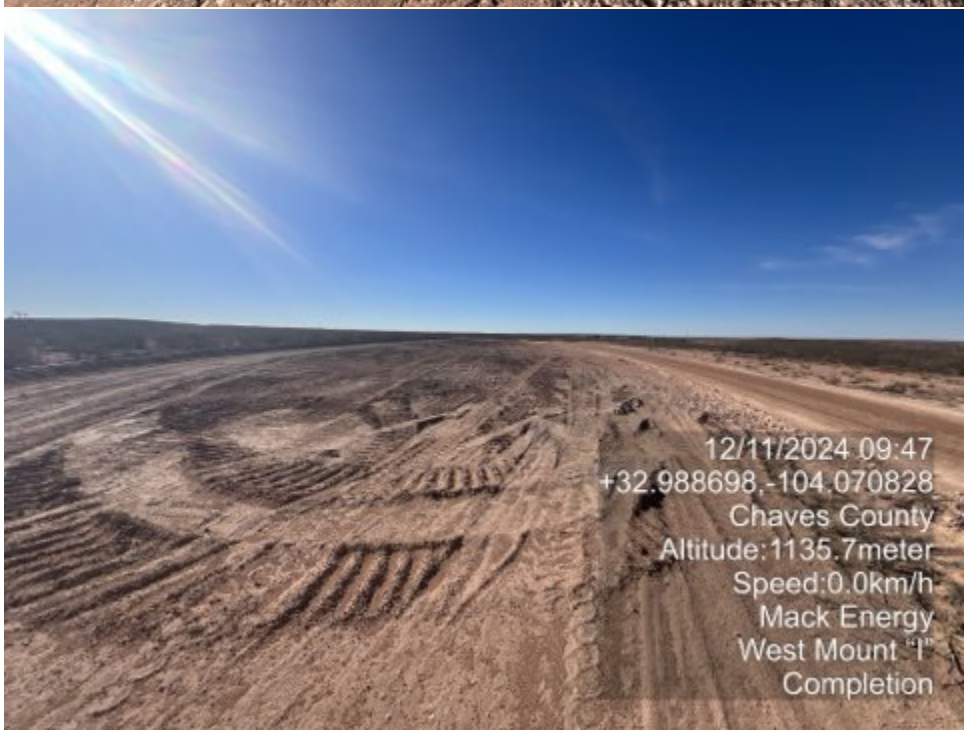
A total of 612 cubic yards of topsoil was loaded and hauled from Mack Energy's Bogel Pit. The topsoil was evenly spread across the entire 1,056 square-foot impacted area. The site was then ripped, contoured, and sloped to match the natural grade. Reseeding was conducted using the Sandy Loam Seed Mix from Curtis and Curtis Seed, which covered the excavation area and disturbed area used for remediation and reclamation efforts consisting of 1,056 square-foot in accordance with State Land Office (SLO) Rules and Regulations.

A five-point composite was ta ken from the center of the excavation/backfill area located at 32.988047 -104.071121. Please find the reclamation composite map and confirmed lab analysis attached herein.

Final reclamation photos have been included with the Closure Report, which has been uploaded and submitted through the NMOCD Portal. The seed tag associated with the seeding event is also attached for your records.

Should you have any questions or require additional information regarding the completed reclamation activities at the West Mount Spill I site for Mack Energy, please feel free to contact me at (575) 390-6397 or (575) 393-9048, or via email at natalie@energystaffingllc.com

MACK ENERGY CORPORATION
WEST MOUNT SPILL I
BACKFILLING AND FINAL PHOTOS

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142° SE
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Roswell
Chaves County
New Mexico
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Velocidad:0.0km/h
West mount spill I
Número de índice: 1218
Google


14 ene 2025 2:40:47 p. m.
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238° SW
31 County Road 209
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Eddy County
New Mexico
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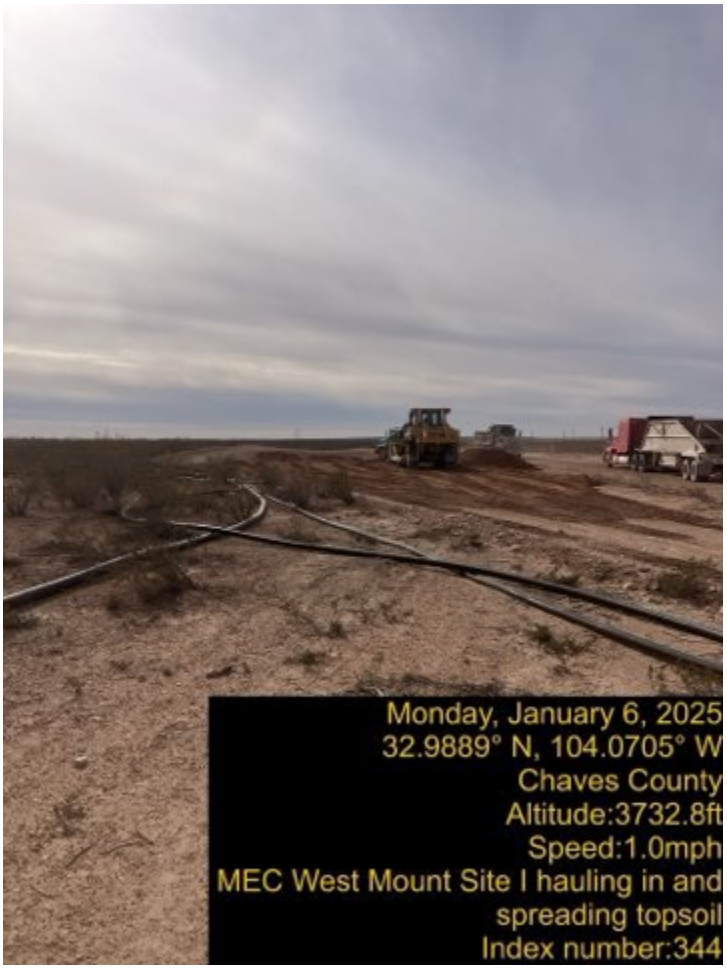
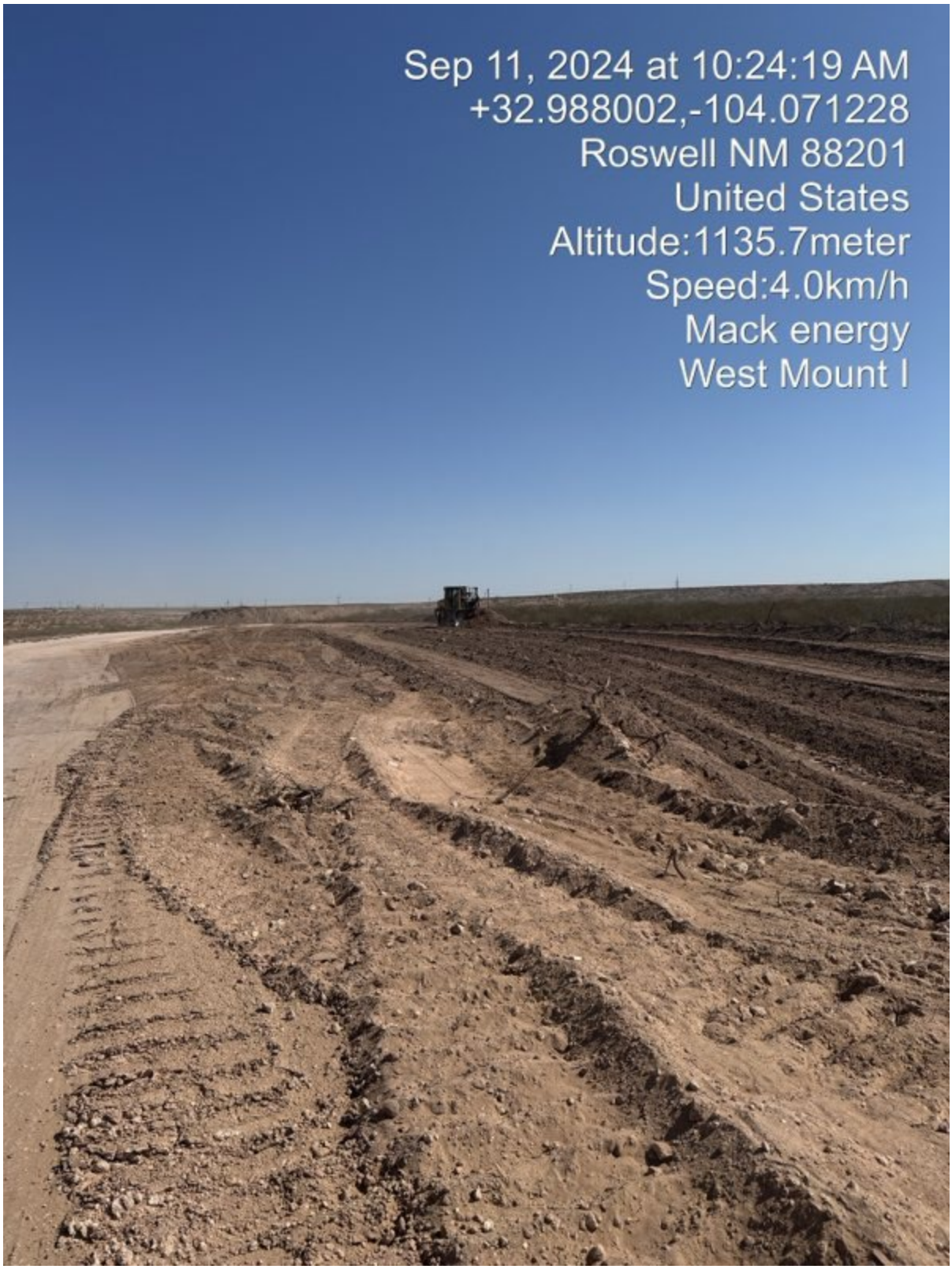
West mount spill I
Número de índice: 1222
Google


Monday, January 6, 2025
32.9889° N, 104.0705° W
Chaves County
Altitude:3732.8ft
Speed:1.0mph
MEC West Mount Site I hauling in and spreading topsoil
Index number:344


Monday, January 6, 2025
32.9888° N, 104.0707° W
Chaves County
Altitude:3725.1ft
Speed:0.7mph
MEC West Mount Site I topsoil Finished
Index number:346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Roswell NM 88201
United States
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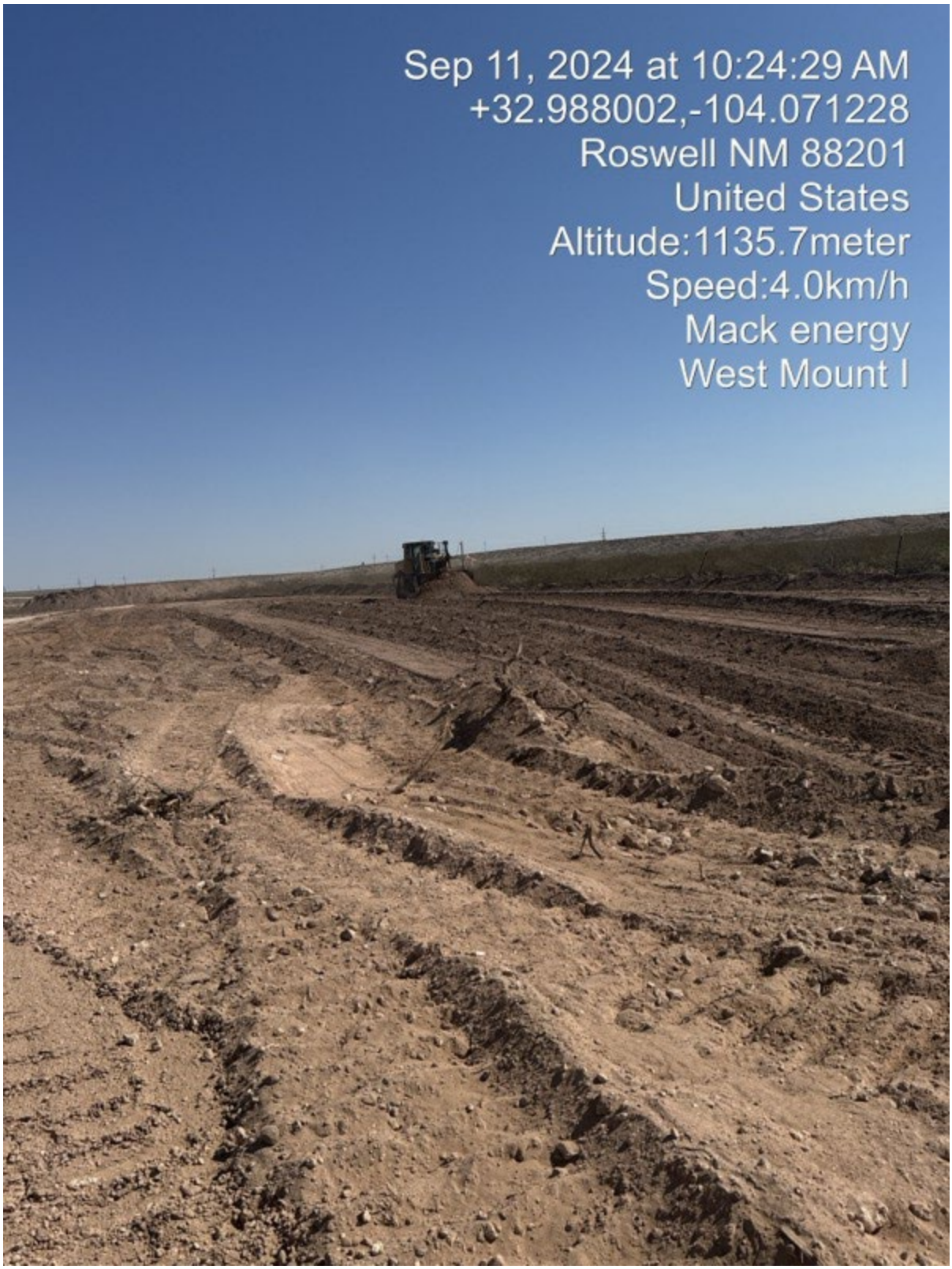
Speed:4.0km/h
Mack energy
West Mount I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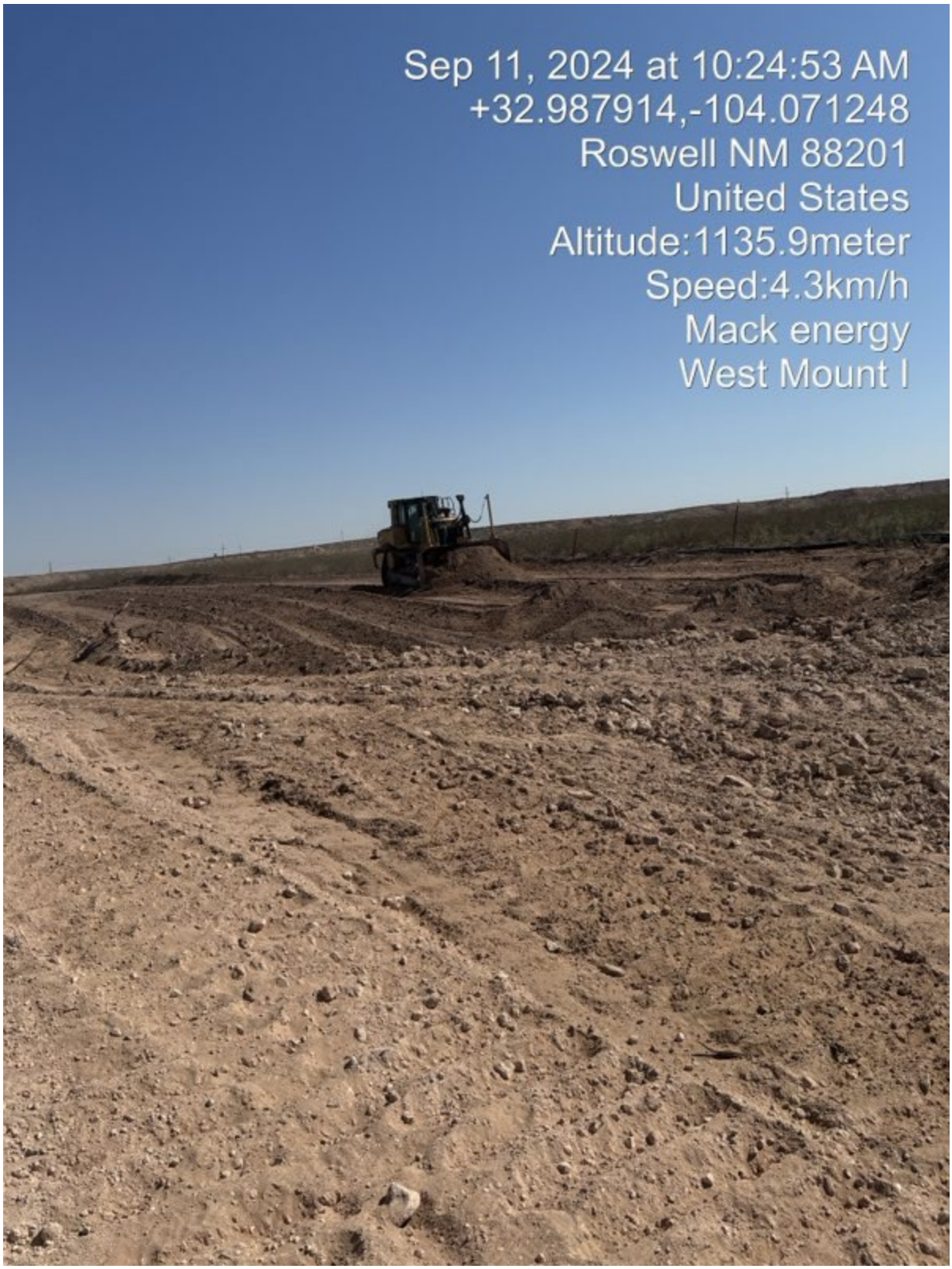
Mack energy
West Mount I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Roswell NM 88201
United States
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Speed:4.3km/h
Mack energy
West Mount I

MACK ENERGY

WEST MOUNT SPILL I
BACKFILL MAP

Legend

- COMPOSITE BACKFILL
- Mack Energy. West Mount #1. frac line spill I 1056 SQ. FT.
- WEST MOUNT SPILL I

WEST MOUNT SPILL I
COMPOSITE BACKFILL

Google Earth

N

Curtis and Curtis Seed
SOW GENEROUSLY

Mack Energy
NMSLO Sandy Loam- 1.8 Ac Broadcasted
Lot #: 68135

28.29

Item	% Pure Mix	Origin	Purity	Germ	Dormant	Total Germ:	Test Date
Little Bluestem, Aldous	9.72%	Kansas	61.69%	59.00%	31.00%	90.00%	11/2024
Galleta, Viva	9.30%	Texas	86.14%	21.00%	73.00%	94.00%	9/2024
Blue Grama, Alma	7.36%	Texas	31.75%	94.00%	1.00%	95.00%	10/2024
Sideoats Grama, Niner	7.21%	Texas	71.10%	16.00%	81.00%	97.00%	12/2024
Four-wing Saltbush, Variety Not Stated	7.07%	New Mexico	91.52%	0.00%	0.00%	99.00%	11/2024
Winter Fat, Variety Not Stated	6.66%	New Mexico	48.97%	90.00%	2.00%	92.00%	8/2024
Palmer Penstemon, Variety Not Stated	3.72%	Utah	98.86%	15.00%	79.00%	94.00%	7/2024
Sand Dropseed,Variety Not Stated	3.61%	Oklahoma	95.21%	92.00%	5.00%	97.00%	10/2024
Gaillardia Aristata, Variety Not Stated	3.61%	Oregon	89.09%	97.00%	0.00%	97.00%	6/2024
Blue Flax, Appar	3.60%	Washington	98.42%	97.00%	0.00%	97.00%	6/2024
Blackeyed Susan, Variety Not Stated	3.53%	Iowa	99.38%	99.00%	0.00%	99.00%	6/2024
Seed Total	65.39%						
Inert Matter:	34.54%						
Other Crop:	0.08%						
Weed Seed:	0.01%						

Noxious Weed: None Texas Permit #772

NMSLO Sandy Loam-1.8 AC Broadcasted.
Bag into 3) 0.5 acre Bag into 3) 0.5 ac
broadcasted bags @ 28.29 bulk pounds

curtisseed.com 4500 North Prince, Clovis, NM 88101 (575) 762-4759

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 546195
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2329756915**
Incident Name	**NAPP2329756915 WEST MOUNT SPILL I @ 30-005-64381**
Incident Type	**Produced Water Release**
Incident Status	**Reclamation Report Received**
Incident Well	**[30-005-64381] WESTMOUNT FEDERAL COM #001H**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	WEST MOUNT SPILL I
Date Release Discovered	09/21/2023
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Human Error | Flow Line - Production | Produced Water | Released: 6 BBL | Recovered: 0 BBL | Lost: 6 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 546195
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**No**
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Natalie Gladden Title: Environmental Email: natalie@energystaffingllc.com Date: 01/26/2026

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 546195
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	26900
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	281
GRO+DRO (EPA SW-846 Method 8015M)	281
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	07/22/2024
On what date will (or did) the final sampling or liner inspection occur	08/21/2024
On what date will (or was) the remediation complete(d)	09/06/2024
What is the estimated surface area (in square feet) that will be reclaimed	1056
What is the estimated volume (in cubic yards) that will be reclaimed	612
What is the estimated surface area (in square feet) that will be remediated	1056
What is the estimated volume (in cubic yards) that will be remediated	2732
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 546195
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	fEEM0112338393 GANDY MARLEY LANDFARM/LANDFILL
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Natalie Gladden Title: Environmental Email: natalie@energystaffingllc.com Date: 01/26/2026
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
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QUESTIONS

Deferral Requests Only *Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.*	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 546195
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**375243**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**08/21/2024**
What was the (estimated) number of samples that were to be gathered	**6**
What was the sampling surface area in square feet	**1058**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1056
What was the total volume (cubic yards) remediated	2732
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	1056
What was the total volume (in cubic yards) reclaimed	612
Summarize any additional remediation activities not included by answers (above)	ALL NMOCD RULES AND REGS WERE FOLLOWED FOR THIS SITE TO CLOSURE.

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Natalie Gladden Title: Environmental Email: natalie@energystaffingllc.com Date: 01/26/2026

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QUESTIONS (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 546195
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	1056
What was the total volume of replacement material (in cubic yards) for this site	3472
Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	01/14/2025
Summarize any additional reclamation activities not included by answers (above)	SITE WAS BACKFILLED WITH 4' OF CLEAN TOPSOIL, CONTOURED, CROSS RIPPED, RESEEDED, WATERED AND CROSS RIPPED FOR A FINAL PASS.
The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Natalie Gladden Title: Environmental Email: natalie@energystaffingllc.com Date: 01/26/2026

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QUESTIONS (continued)

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	Action Number: 546195
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.	

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CONDITIONS

Action 546195

CONDITIONS

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	Action Number: 546195
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your reclamation/remediation closure report for Incident #NAPP2329756915 WEST MOUNT SPILL I, thank you. The reclamation/remediation closure report is approved.	2/9/2026